14143-14273 Washington Avenue Warehouse Project

Draft Initial Study – Mitigated Negative Declaration

prepared by

City of San Leandro
835 East 14th Street
San Leandro, California 94577
510-577-3458
Contact: Binh Nguyen, Associate Planner

prepared with the assistance of

Rincon Consultants, Inc.
449 15th Street, Suite 303
Oakland, California 94612

October 2023

RINCON CONSULTANTS, INC.
Environmental Scientists | Planners | Engineers
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Initial Study

The City of San Leandro, as the Lead Agency, prepared this Initial Study for the 14143-14273 Washington Avenue Warehouse Project in compliance with the California Environmental Quality Act (CEQA), the CEQA Guidelines (California Code of Regulations [CCR] Section 15000 et. seq.), and the regulations and policies of the City of San Leandro, California. The 14143-14273 Washington Avenue Warehouse Project (hereinafter referred to as "proposed project" or "project") would involve construction of a one-story, 52,269 square-foot warehouse structure, including a 5,000 square-feet office, and associated site improvements and landscaping.

1. Project Title

14143-14273 Washington Avenue Warehouse Project

2. Lead Agency Name and Address

City of San Leandro
835 East 14th Street
San Leandro, California 94577
510-577-3458

3. Contact Person and Phone Number

Binh Nguyen, Associate Planner
Office: 510-577-3314
Email: bnguyen@sanleandro.org

4. Project Sponsor's Name and Address

First Industrial Realty Trust
1111 Broadway, Third Floor
Oakland, California 94067
510-851-6769

5. Project Location

The project site is located on the west side of Washington Avenue, south of its intersection with 139th Avenue and north of its intersection with 143rd Avenue in San Leandro, California. The site, which totals 3.45 acres, consists of the following Assessor's Parcel Numbers:

- 77B-1222-3-3
- 77B-1222-4-3
- 77B-1222-5-3
- 77B-1222-6-15
- 77B-1222-6-17
- 77B-1222-6-18

Regional access is available to the site from Interstate 880 (I-880), located 0.6 mile west of the site; I-580, located one mile east of the site; and I-238, located one mile south of the site. Local access to the site is available from Washington Avenue via Halcyon Drive and San Leandro Boulevard. Figure 1 shows the regional location of the project site, and Figure 2 provides an aerial image of the project site in its neighborhood context.

6. General Plan Designation

The City of San Leandro 2035 General Plan designates the project site as Industrial Transition. (IT) According to the City's General Plan, the Industrial Transition designation corresponds to the IT, Industrial Transition District, and is conditionally compatible with the IG, Industrial General, CC, Commercial Community, IL, Industrial limited, and IP, Industrial Park Zoning Districts. IT areas have historically been industrial but have transitioned or may transition in the future to a more diverse mix of uses, including general commercial activities (City of San Leandro 2016a).

7. Zoning

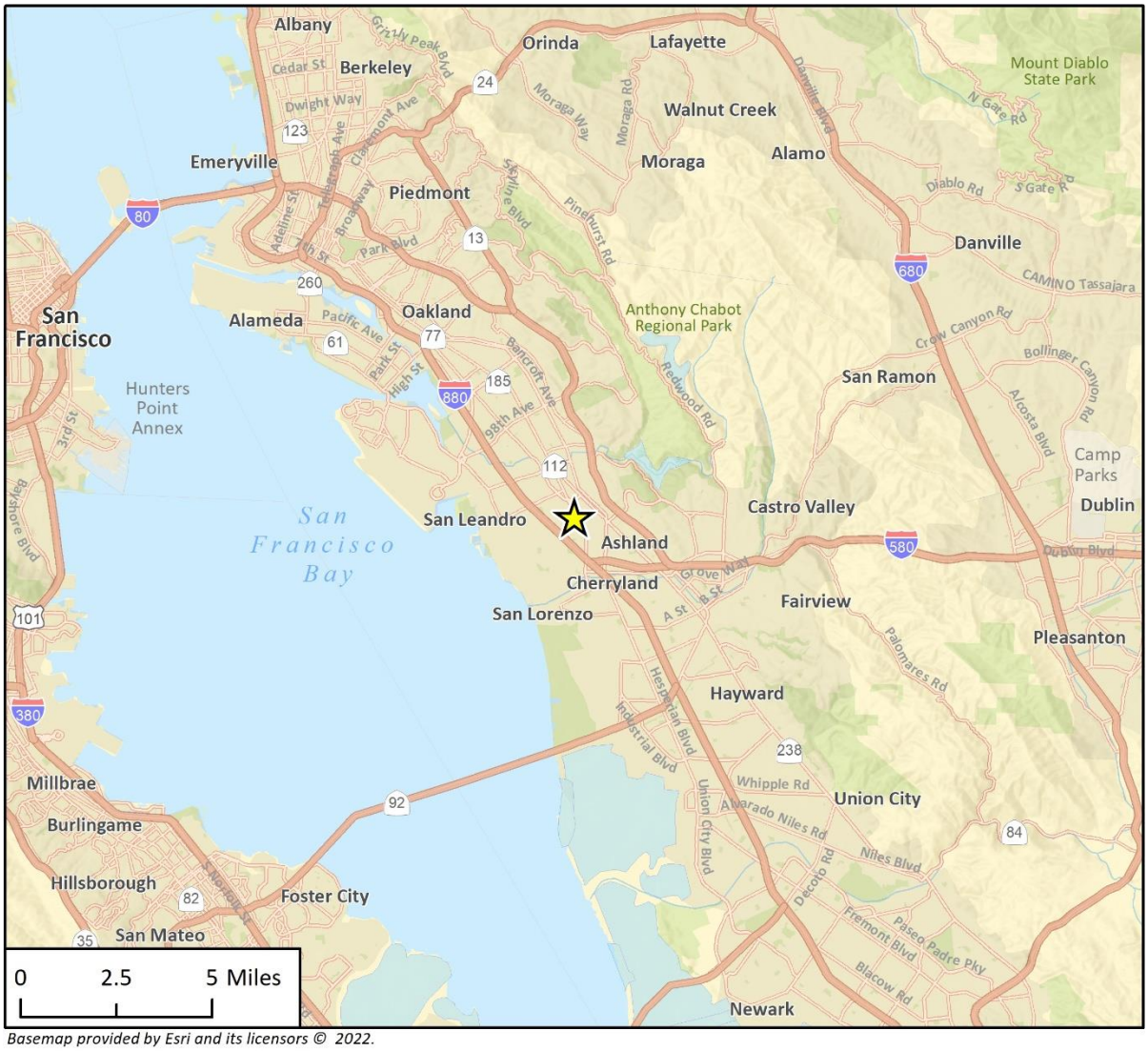
The project site is zoned as Commercial Community (CC)with an Assembly Use (AU)overlay. Pursuant to San Leandro Zoning Code (SLZC) Section 2.08.200, uses permitted in Commercial Community zones include but are not limited to business services and offices. Commercial Community zones require a minimum lot area of 10,000 square feet, a maximum building height of 50 feet, and a maximum floor area ratio (FAR) of 1.0, and a minimum landscaped area of 10 percent, among other requirements. The Assembly Use overlay applied to the project site allows for assembly uses, including but not limited to union halls, social clubs, and youth centers, on a conditional basis. This area was rezone from industrial to commercial in the late 1990s, with the vision that the southern portion of Washington Ave would become a commercial gateway into the City. However, due to the strong economy of the industrial businesses, few commercial developments have occurred.

8. Surrounding Land Uses and Setting

The project site is located within a developed commercial and light industrial area. Surrounding land uses include outdoor landscaping suppliers to the north; commercial, storage, and automobile repair shops to the east; a home supply store to the south; and the City Public Works Department and warehouses to the west. Union Pacific railroad tracks border the site to the west. The nearest residential areas are located approximately 500 feet southwest and 1,000 feet east of the project site.

The project site was previously developed with several structures, including a recreational vehicle rental and storage facility, an ironwork shop, and two single-family residences, both of which were used as part of an ironworks business. However, these structures were destroyed in a structural fire in August 2022, and the site is currently vacant. Demolition of the remaining structures was undertaken by the City under emergency safety permits; therefore, demolition is not part of the proposed project. There are 23 trees on site, and the site is relatively flat with an elevation of approximately 40 feet. Photographs of existing conditions on the project site are shown in Figure 3.

Figure 1 Regional Location



Basemap provided by Esri and its licensors © 2022.

Project Location

N

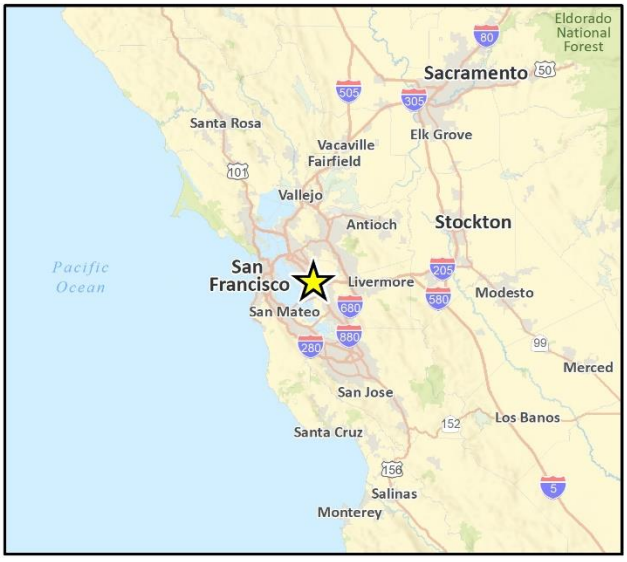


Figure 2 Project Site

Imagery provided by Microsoft Bing and its licensors © 2023.

22-12761 EPS
Fig 2 Project Location

Figure 3 Site Photographs

Photograph 1. Interior of the northern portion of the site looking west from site frontage on Washington Avenue.

Photograph 2. Interior of the southern portion of the site looking south from site frontage on Washington Avenue

Photograph 3. Interior of the central portion of the site looking northwest from site frontage on Washington Avenue

Photograph 4. Interior of the site looking southwest from site frontage on Washington Avenue

9. Project Description

The project is a speculative development construction of a one-story, 52,269 square-foot warehouse structure with 15 truck bays for truck parking, which would include up to 5,000 square feet of office space. The project would also include construction of a surface parking lot with 64 vehicle parking spaces,14 bicycle parking spaces, as well as on-site landscaping. Figure 4 shows the proposed site plan, and Figure 5 shows the proposed elevations from each direction.

The project would require a lot line adjustment (merger) to create a single lot. The project would also require a rezone from Commercial Community, Assembly Use Overlay (CC (AU)) to Industrial General (IG). The proposed warehouse would be 47 feet in height, which would exceed the height limit of 35 feet for IG Districts. Pursuant to SLZC Section 2.12.312, a maximum building height of 50 feet in the IG District may be approved by the Zoning Enforcement Official.

The structure's interior area would consist primarily of warehouse space, with the proposed office space, an electrical room, and a fire pump room located at the northern end of the structure. The west side of the structure would have 15 dock doors for vehicle shipping and receiving access. The structure would be surrounded by 26-foot wide internal drive aisles and parking to the north and south, with vehicle maneuvering space provided to the west. Two drive-in doors would also be provided along the dock doors on the structure's west side. A trash enclosure would be located on the western side of the structure.

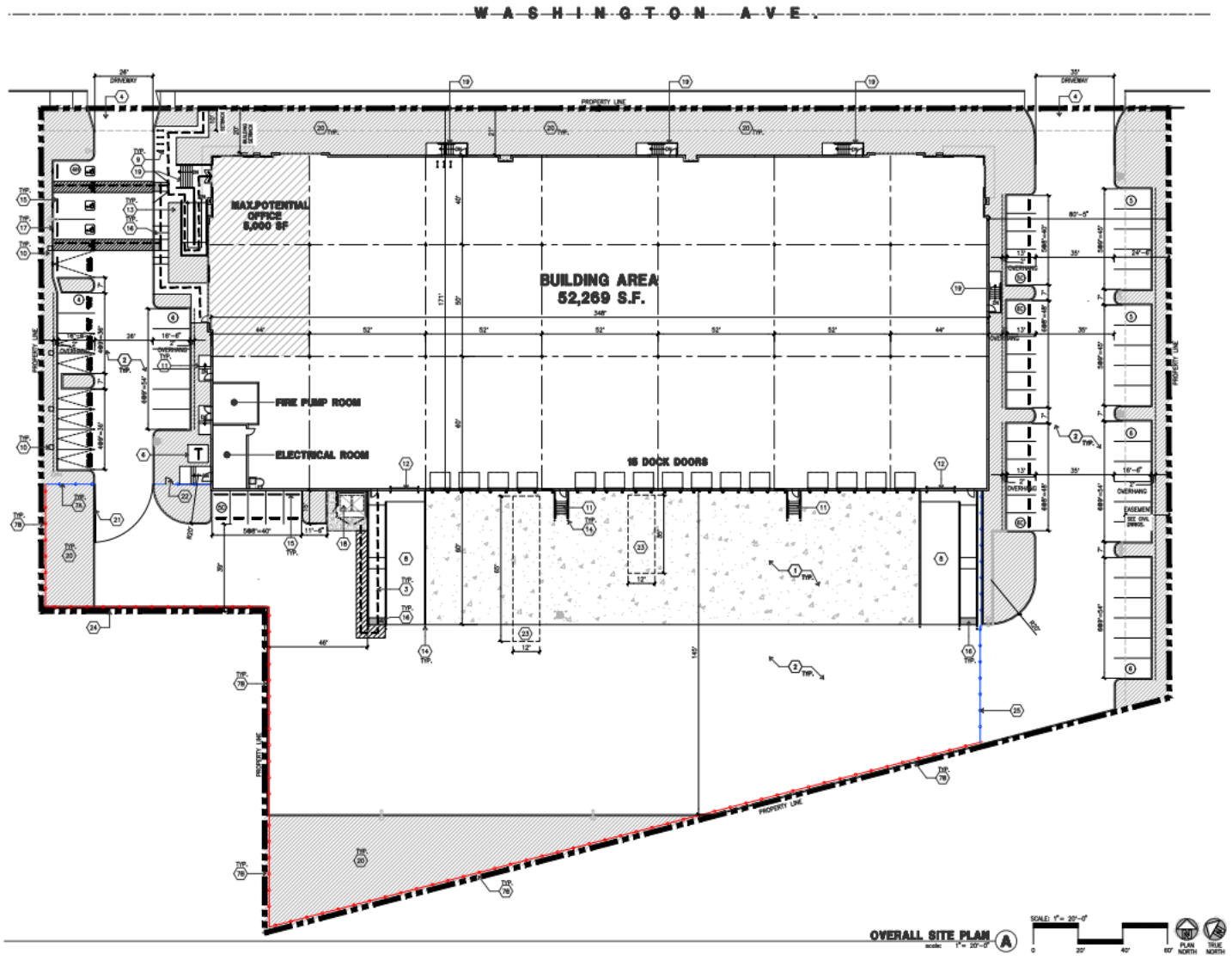
Materials for the exterior of the structure would include concrete painted off-white and beige neutral colors, with wood paneling and windows located on the northern and southern faces of the structure. Windows would be treated with grey glazing and set in black metal trim. Wall-mounted and pole light fixtures would be located on the structure's exterior and in the parking areas to provide nighttime lighting. A final photometric plan would be required at the building permit stage and the project would be conditioned to meet the applicable provisions of SLZC Section 4.08.156, *Lighting.*

Landscaping and Open Space

There are 23 trees on the project site. Demolition and site preparation would include the removal of 10 trees. Of the 10 trees to be removed, eight trees are located within the proposed construction footprint and two trees are located within the proposed parking and driveway areas. Trees to be removed would include coast redwoods, valley oaks, ginkgo, loquat, and Victorian box trees. None of these trees are street trees and thus, would not be subject to SLMC Chapter 5-2 (Appendix A). As part of the proposed site landscaping, the project would involve planting 12 trees along the site's frontage with Washington Avenue and 17 trees within the parking areas of the project site.

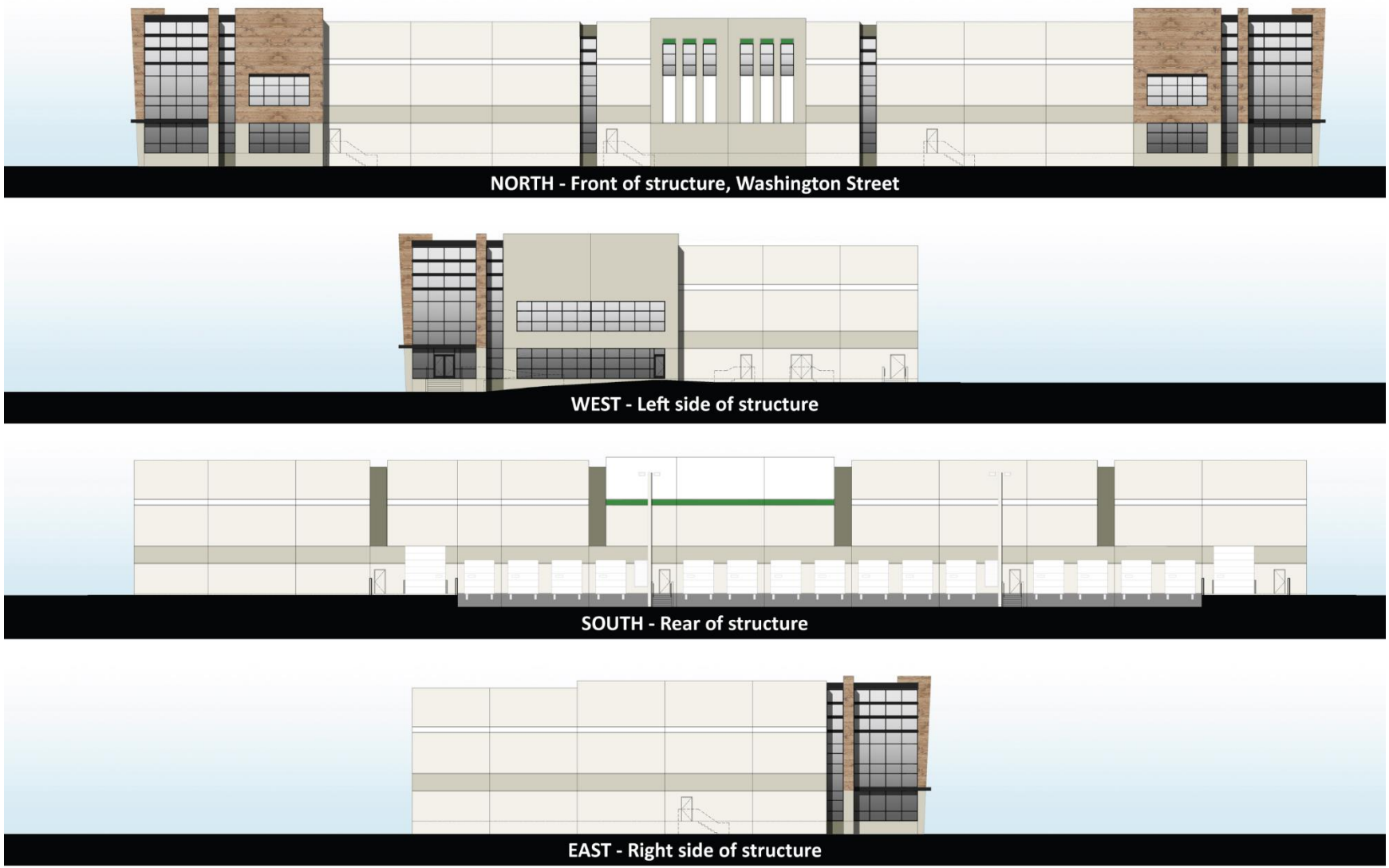
Landscaping for the project would consist of trees, shrubs, grasses, and groundcover plants along the perimeter of the project site, around the proposed warehouse structure, and a maintained area along the western boundary of the project site. Approximately 15 percent of the site's area, or approximately 21,000 square feet, would include landscaping that would comply with the State's Model Water Efficient Landscape Ordinance (MWELO) and bioswales that would help with stormwater treatment.

Figure 4 Proposed Site Plan



Source: First Industrial Realty Trust 2022

Figure 5 Proposed Structure Elevations



Source: HPA Architecture, 07/22/21.

Site Access, Circulation, and Parking

Vehicle access to the project site would be available via two existing two-way driveways on Washington Avenue, located in the southeast and northeast corners of the project site, respectively. Pedestrian access to the project site would be provided via concrete sidewalks along all sides of the proposed structure, except alongside the 15 dock doors. These sidewalks would lead to exterior stairwells and entryways. Pedestrian access to the warehouse would be provided via seven pedestrian doors; three located on the structure's north side, three on the structure's eastern side along Washington Avenue, and one located on the structure's south side. Two doors, separated from the project site driveway by a fence, would provide exterior access to the electrical room and the fire pump room. Pedestrian entrances to the structure would be above grade and accessible via concrete stairways.

The proposed project would be required to provide 49 vehicle parking spaces and 13 bicycle parking spaces pursuant to the SLZC. A total of 64 vehicle parking spaces would be provided and 14 bicycle parking spaces would be provided. Parking provided would exceed the requirement for off street parking and loading for manufacturing and warehouse facilities, located along the northern, southern, and western sides of the proposed warehouse structure. Three accessible parking spaces, seven electric vehicle charging spaces, and one clean air vehicle space would be located on the northern side of the project site. Remaining parking spaces would consist of 31 standard vehicle and 22 compact vehicle spaces. The drive aisle from each driveway on Washington Avenue would allow vehicles to access a paved area in the western portion of the site, which would provide vehicle maneuvering space adjacent to the 15 dock doors. There would be 14 bicycle parking spaces located on the northern end of the proposed warehouse structure.

Table 1 provides a summary of parking to be provided on the project site.

Table 1 Parking Summary

Parking	Number of Stalls
Vehicle	**64**
Standard	31
Compact	22
Accessible	3
Electric Vehicle – regular	7
Clean Air Vehicle	1
Loading space	2
Bicycle	**14**
Short-term	6
Long-term	8

Source: First Industrial Realty Trust 2022

Green Building Features

Construction of the project would incorporate several green building features. The project would utilize energy efficient LED lighting and controls that would exceed the requirements of Title 24 of the California Energy Commission's Building Energy Efficiency Standards, as well as City energy efficiency requirements. Plumbing fixtures used for the proposed project would be high-efficiency fixtures, which would minimize the potential inefficient or wasteful consumption of energy related to water and wastewater. The project would not use natural gas in accordance with City of San Leandro reach codes effective as of January 2023.

Utilities and Public Services

Water would be provided to the project site by the East Bay Municipal Utility District and the applicant was provided a Will Serve Letter from EBMUD on October 7, 2021. Wastewater treatment for the project site would be served by the Oro Loma Sanitary District (OLSD). The City of San Leandro Department of Public Works owns and maintains 175 miles of storm drain conduits throughout the city. The project would continue to connect to the existing storm drain system operated and maintained by the City of San Leandro. Stormwater from the project site drains west to Washington Avenue, where it is collected by storm drains into the City's stormwater system. Electricity would be provided to the project site by East Bay Community Energy (EBCE) via Pacific Gas and Electric Company (PG&E) infrastructure, and the project would occasionally involve use of a 500 horsepower backup generator. Infrastructure capable of supporting electric and telecommunications is present at the project site and in the project vicinity. The project site would be served by existing public services within the city. The Alameda County Fire Department (ACFD) would provide fire protection and emergency medical service to the project site. The San Leandro Police Department (SLPD) would provide law enforcement services to the project site.

10. Site Preparation and Construction

Site preparation would include demolition of paving and other onsite features as well as grading. Construction activities would include construction, paving, and architectural coating. Construction is anticipated to begin in early 2024 and would be completed in spring 2025. Pursuant to Section 4-1.1115 of SLMC, construction would occur between the hours of 7:00 a.m. and 7:00 p.m., Monday through Friday, and 8:00 a.m. and 7:00 p.m. on Saturday and Sunday. Table 2 below describes the estimated site preparation and construction schedule, which is based on data provided in the Air Quality and Greenhouse Gas Emissions Impacts Report prepared by FirstCarbon Solutions (Appendix B).

Table 2 Projected Site Preparation and Construction Timeline

Stage	Start Date	End Date
Demolition	January 2024	February 2024
Site Preparation	February 2024	March 2024
Grading	February 2024	March 2024
Building Construction	February 2024	January 2025
Paving	January 2025	February 2025
Architectural Coating	February 2025	March 2025

11. City of San Leandro Permits and Approvals Required

The following permits and approvals are required from the City of San Leandro prior to project construction:

- Lot Line Adjustment (lot merger)
- Site Plan Review
- Conditional Use Permit
- Building Height Adjustment
- Building Permit
- Rezoning from CC (AU), Commercial Community, Assembly Use Overlay, to Industrial General

12. Other Public Agencies Whose Approval is Required

The proposed project does not require the discretionary approval of any other public agency except for the City of San Leandro.

13. Have California Native American Tribes Traditionally and Culturally Affiliated with the Project Area Requested Consultation Pursuant to Public Resources Code Section 21080.3.1?

No California Native American Tribes have requested notification of new development within San Leandro. On June 7, 2022, the City of San Leandro, pursuant to Public Resources 21080.3.1 and AB 52, sent via email and a certified mail notification letter regarding the proposed project to the following tribes:

- Amah Mutsun Tribal Band of Mission San Juan Bautista
- Costanoan Rumsen Carmel Tribe
- Indian Canyon Mutsun Band of Costanoan
- Muwekma Ohlone Indian Tribe of the San Francisco Bay Area
- The Ohlone Indian Tribe
- Wuksache Indian Tribe/Eshom Valley Band
- The Confederated Villages of Lisjan Nation
- North Valley Yokuts Tribe

Additional information regarding consultation is included in Environmental Checklist Section 18, *Tribal Cultural Resources.*

Environmental Factors Potentially Affected

This project would potentially affect the environmental factors checked below, involving at least one impact that is "Potentially Significant" 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

Determination

Based on this initial evaluation:

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

■ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions to 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 "less than significant with mitigation incorporated" 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 potential 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.

	3 October 2023
Signature	Date
Binh Nguyen	Associate Planner
Printed Name	Title

Environmental Checklist

1 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 a publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	□	□	■	□
d. Create a new source of substantial light or glare that would adversely affect daytime or nighttime views in the area?	□	□	■	□

Setting

The site is currently vacant but mostly paved. Surrounding land uses include commercial and light industrial structures of one to two stories and outdoor storage of materials. The surrounding landscape includes street trees, landscaped areas around commercial and industrial development, and ruderal vegetation.

The nearest officially designated or eligible State Scenic Highway is Interstate 580 (I-580), which is officially designated as a State Scenic Highway north of San Leandro Creek and eligible for designation south of San Leandro Creek (California Department of Transportation [Caltrans] 2018). The project site is approximately 1.75 miles southeast of the officially designated portion and approximately 1 mile east of the eligible portion at their closest points.

Regulatory Setting

San Leandro 2035 General Plan

The following Land Use Element policy of the San Leandro 2035 General Plan describes the intended aesthetic vision for the Washington corridor.

LAND USE ELEMENT

Policy LU-8.5: Maintain areas in the City that are appropriate for lumberyards, construction suppliers, automotive repair shops, and other commercial uses that are industrial in character or that are typically located in industrial areas. While development standards in these areas should respect the operational characteristics of these uses, they should still promote aesthetic improvements, adequate buffering for nearby uses, traffic safety, and a more positive visual image.

San Leandro Zoning Code

While the project site is currently zoned as Commercial Community, Assembly Use Overlay, the project would involve rezoning the site to Industrial General. San Leandro Zoning Code (SLZC) establishes use and development regulations for industrial districts. These regulations are summarized below in Table 3.

Table 3 Industrial General Development Regulations

Feature	Requirement
Minimum Lot Area	5,000 square feet
Minimum Lot Width	50 feet
Minimum Setback	20 feet (required for structures over 40 feet in height)
Maximum Height	Up to 50 feet with approval by the Zoning Enforcement Official
Maximum Lot Coverage	75%, Floor Area Ratio (FAR) of 1.0
Minimum Site Landscaping	5%

The following section of SLZC would also be applicable to the project.

Section 4.08.156 **Lighting**. Outdoor lighting in a landscaped parking area shall not employ a light source higher than 12 feet. Outdoor parking area lighting shall create no cone of direct illumination greater than 60 degrees from a light source higher than six feet and shall not directly shine onto an adjacent street. Maximum illumination at ground level shall be three foot candles and shall not exceed one-half foot candles in an R district.

Impact Analysis

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

A scenic vista is usually defined as a panoramic view from an elevated position or a long-range view from a public vantage point. This can include views of natural features or of the built environment, when architecture and landscaped boulevards offer high-value views of an area considered important to the sense of place.

The San Leandro 2035 General Plan does not formally recognize specific scenic vistas in the city. However, the General Plan does designate scenic views, which the City has identified as aesthetic priorities that contribute to a sense of place. These scenic views include long-range views of the San Francisco Bay to the west and views of hills above I-580 to the east. Due to intervening development and distance, there are no views of the San Francisco Bay from the project site. Intermittent views of the hills above I-580 to the west are visible from the project site; however, these views are to the west from public viewpoints along Washington Avenue and would not be affected by the project, which is on the east side of the street. The proposed warehouse structure would not substantially alter views of these scenic views, the surrounding built environment, or distant scenic features. Therefore, the project would not result in a substantial adverse effect on a scenic vista, and there would be no impact.

NO IMPACT

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

I-580 is a designated State Scenic Highway north of San Leandro Creek and eligible for designation south of San Leandro Creek (Caltrans 2018). Due to intervening development and distance, the project site is not visible from either highway segment. Therefore, implementation of the project would have no effect on scenic resources in view of a State Scenic Highway. There would be no impact.

NO IMPACT

c. Would the project 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 a 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?

The project site is a vacant property in an urbanized area, surrounded by automobile repair shops to the north; commercial, storage, and automobile repair shops to the east; a home supply store to the south; and the City Public Works Department and warehouses to the west. Table 4 and Table 5 below show policies and standards from the City's General Plan and the SLZC that govern scenic quality and demonstrates the project's consistency with both.

Table 4 Project Consistency with General Plan and Municipal Code

Policy/Standard	Project Consistency
City of San Leandro 2035 General Plan	
Policy LU-8.5. Maintain areas in the City that are appropriate for lumberyards, construction suppliers, automotive repair shops, and other commercial uses that are industrial in character or that are typically located in industrial areas. While development standards in these areas should respect the operational characteristics of these uses, they should still promote aesthetic improvements, adequate buffering for nearby uses, traffic safety, and a more positive visual image.	**Consistent.** The project would involve construction and operation of a warehouse structure. Existing land uses surrounding the project site include warehouses, automotive repair shops, and home supply stores. Therefore, the proposed warehouse would be consistent with the existing commercial and industrial character of the project site surroundings. Additionally, as described in the *Project Description,* the proposed warehouse's exterior would include concrete painted off-white and beige neutral colors, wood paneling, and metal trim, which would result in aesthetic improvements compared to existing conditions and promote a positive visual image in the project area. Therefore, the project would be consistent with this policy.

Source: City of San Leandro 2016a;; First Industrial Realty Trust 2022

The project would involve rezoning the project site from Commercial Community, Assembly Use Overlay to Industrial General, and a lot line adjustment to combine all parcels into a single lot. Table 5 below demonstrates that the proposed project would be in compliance with Industrial General standards, specifically those that regulate scale and massing, pursuant to SLZC Section 2.12.300. Compliance with these standards would ensure that the scale and massing of the proposed project would be limited as required by the SLZC, which would affect the visual character of the project consistent with the City's vision for the area and would ensure that the project would be designed to be visually compatible with the surrounding area.

Table 5 Project Consistency with City Zoning Requirements

Feature	Zoning Requirements	Proposed Warehouse Feature[1]
Minimum Lot Area	5,000 square feet	146,000 square feet
Minimum Lot Width	50 feet	300 feet
Minimum Setback	20 feet (required for structures over 40 feet in height)	20 feet
Maximum Height	Up to 50 feet with Zoning Enforcement Official approval	47 feet[2]
Maximum Lot Coverage	75%, Floor Area Ratio (FAR) of up to 1.0	34.7%, FAR of 0.34
Minimum Site Landscaping	5%	15.4%

[1] Feature with all three lots combined

[2] Would require approval from City zoning enforcement official

As shown above, the project would be consistent with applicable San Leandro General Plan policies and standards related to aesthetics. The project would either comply with applicable SLZC standards or receive approval from the City to exceed lighting and building height requirements. Impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

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

The project site is in an urban area with moderate levels of existing lighting. Lighting sources around the project site include wall-mounted security lights on adjacent buildings, streetlights on Washington Avenue, and lights from vehicles on Washington Avenue or in surrounding parking lots. The primary source of glare in the area is sunlight reflected off light-colored and reflective building materials and finishes, and metallic and glass surfaces of vehicles parked in parking lots adjacent to or across the street from the project site.

The proposed warehouse structure would include windows on its exteriors, which would be treated with grey glazing to reduce reflectivity. Glare from sunlight generally occurs on the east side of buildings in the morning and west side in the afternoon. The proposed building would be located along the west of Washington Avenue which runs north to south and would likely not create substantial sun reflection to drivers in the morning or afternoon because drivers would not be directly facing the east or west sides of the buildings. Additionally, the north, east, and west sides of the building would be partially blocked by proposed landscaping along the northern, eastern, and western perimeters of the project site. Further, the project would be located in a commercial area with existing sources of light and reflection and would not adversely affect daytime views of the area. The project would be required to comply with applicable provisions of SLZC Section 4.08.156, Lighting, which would be reflected in the conditions of approval. The project site is in an area already developed with commercial and light industrial uses, including existing warehouses, a home supply store, and an outdoor landscaping supplier. Additional nighttime lighting at the project site would be consistent with surrounding land uses. Further, the nearest residences to the project site (approximately 500 feet southwest and 1,000 feet east) are separated by intervening development and privacy fences; therefore, nighttime lighting would not be substantially visible from the nearest residences, and there are no parks or similar recreational or gathering spaces adjacent. The project would not substantially alter conditions in the vicinity. Therefore, impacts related to project light and glare would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

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2 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 maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	■
b. Conflict with existing zoning for agricultural use or a Williamson Act contract?	☐	☐	☐	■
c. Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)); timberland (as defined by Public Resources Code Section 4526); or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?	☐	☐	☐	■
d. Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	■
e. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	■

Setting

The project site is located within an urban area of San Leandro. The site was previously developed and is zoned for Commercial Community, Assembly Use Overlay.

The California Department of Conservation (DOC) manages the Farmland Mapping and Monitoring Program to assess and record suitability of land for agricultural purposes. In each county, the land is analyzed for soil and irrigation quality. The highest quality land is designated as Prime Farmland. According to the Alameda County Important Farmland Map prepared by the DOC, the project site and vicinity are designated as Urban and Built-Up Land and the site does not have any identified agriculture or forest land (DOC 2016).

Regulatory Setting

The DOC's Farmland Mapping and Monitoring Program (FMMP) monitors the conversion of the State's farmland to and from agricultural use. County-level data is collected, and a series of maps are prepared that identify eight classifications and uses based on a minimum mapping unit size of 10 acres. The program also produces a biennial report on the amount of land converted from agricultural to non-agricultural use. The program maintains an inventory of State agricultural land and updates the Important Farmland Series Maps every two years. The FMMP is an informational service only and does not constitute State regulation of local land use decisions. Agricultural land is rated according to several variables, including soil quality and irrigation status with Prime Farmland being considered the most optimal for farming practices. Other FMMP designations include Farmland of Local Importance, Grazing Land, and Water.

Land Conservation Act

Better known as the "Williamson Act" (California Administrative Code Section 51200 et seq.), the California Land Conservation Act of 1965 creates a legal arrangement whereby private landowners' contract with local governments to voluntarily restrict land to agricultural and open space uses, protecting it from unnecessary or premature conversion to urban uses. In return, restricted parcels are assessed for property tax purposes at a rate consistent with their actual use rather than potential market value, which saves landowners from 20 percent to 75 percent in property tax liability each year.

Generally, Williamson Act contracts have an initial term of ten years, with renewal occurring automatically each year thereafter. The contracts run with the land and are binding on all succeeding landowners. Land must be in an agricultural preserve to enter into a Williamson Act contract. Agricultural preserves under Williamson Act contract contain at least 100 contiguous acres of agricultural land unless specific findings are made.

Non-renewal initiations are requested either by the landowner or the local government and are often filed in anticipation of converting farmland to other uses. Most contracted land is terminated through non-renewal. Upon the expiration of the contract, the restrictions are removed and the property tax assessment, which had been gradually increasing over the previous nine-year non-renewal period, returns to full market value.

To characterize the environmental baseline for agricultural resources, Important Farmland Maps produced by the DOC were reviewed. Unless otherwise expressed, the future use of "Important Farmland" specifically includes the following definitions provided by the DOC:

- **Prime Farmland:** Land which has the best combination of physical and chemical characteristics for producing crops. It has the soil quality, growing season, and moisture supply needed to produce sustained high yields of crops when treated and managed, including water management, according to current farming standards.
- **Unique Farmland:** Land of lesser quality soils used for the production of specific high economic value crops. It has the special combination of soil quality, location, growing season and moisture supply needed to produce sustained high quality or high yields of a specific crop when treated and managed according to current farming methods. It is usually irrigated but may include non-irrigated orchards or vineyards as found in some climatic zones in California. Examples of crops include oranges, olives, avocados, rice, grapes and cut flowers.

- **Farmland of Local Importance:** Land of importance to the local agricultural economy as determined by each county's board of supervisors following recommendations by a local advisory committee.

PRC Section 12220(g) defines forest land as:

> land that can support 10-percent native tree cover of any species, including hardwoods, under natural conditions, and that allows for management of one or more forest resources, including timber, aesthetics, fish and wildlife, biodiversity, water quality, recreation, and other public benefits.

PRC Section 4526 defines timberland as:

> land, other than land owned by the federal government and land designated by the board as experimental forest land, which is available for, and capable of, growing a crop of trees of a commercial species used to produce lumber and other forest products, including Christmas trees. Commercial species shall be determined by the board on a district basis.

Government Code Section 51104(g) defines a timberland production zone as:

> an area which has been zoned pursuant to Section 51112 or 51113 and is devoted to and used for growing and harvesting timber, or for growing and harvesting timber and compatible uses, as defined in subdivision (h).

Impact Analysis

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

The project site is not designated as, is not adjacent to, and is not proximate to lands classified as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, as shown by maps prepared by the DOC's Farmland Mapping and Monitoring Program maps (DOC 2016a). The rezone of the project site from Commercial Community, Assembly Use Overlay to Industrial General would not result in the rezone of an agricultural use to a non-agricultural use. The project would only modify the project site; therefore, no Prime Farmland, Unique Farmland, or Farmland of Statewide Importance would be affected by project implementation and no impact would occur.

NO IMPACT

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

The project site and surrounding areas are not subject to Williamson Act contracts (DOC 2016b). The project would only involve construction and modification at the project site, an industrial site. The rezone of the project site from Commercial Community, Assembly Use Overlay to Industrial General would not result in the rezone of an agricultural use or Williamson Act contract land to a non-agricultural use. Therefore, no Williamson Act contracts would be affected by project implementation and no impact would occur.

NO IMPACT

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

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

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

The project site does not currently provide forest and timber resources and would not be used for forest and timber resources. While some landscaping trees are present on the industrial project site, the site itself is not considered forest or timberland (California Department of Fish and Wildlife 2021). As such, the project would not convert forest or timberland uses, and no impact would occur.

NO IMPACT

3 Air Quality

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

Information in this section is based on the Air Quality and Greenhouse Gas Emissions Impacts Report prepared for the project by FirstCarbon Solutions in August 2022. This report was peer reviewed by Rincon Consultants in October 2022, and FirstCarbon Solutions prepared a revised report in April 2023. Rincon Consultants also prepared updated air quality modeling in September 2023. The revised Air Quality and Greenhouse Gas Emissions Impacts Report, peer review memorandum, and updated air quality modeling are included as Appendix B.

Overview of Air Pollution

The federal and State Clean Air Acts (CAA) mandate the control and reduction of certain air pollutants. Under these laws, the U.S. Environmental Protection Agency (USEPA) and the California Air Resources Board (CARB) have established the National Ambient Air Quality Standards (NAAQS) and the California Ambient Air Quality Standards (CAAQS) for "criteria pollutants" and other pollutants. Some pollutants are emitted directly from a source (e.g., vehicle tailpipe, an exhaust stack of a factory, etc.) into the atmosphere, including carbon monoxide, volatile organic compounds (VOC)/reactive organic gases (ROG),[1] nitrogen oxides (NO_X), particulate matter with diameters of ten microns or less (PM_{10}) and 2.5 microns or less ($PM_{2.5}$), sulfur dioxide, and lead. Other pollutants are created indirectly through chemical reactions in the atmosphere, such as ozone, which is created by atmospheric chemical and photochemical reactions primarily between ROG and NO_X. Secondary pollutants include oxidants, ozone, and sulfate and nitrate particulates (smog).

[1] CARB defines VOC and ROG similarly as, "any compound of carbon excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate," with the exception that VOC are compounds that participate in atmospheric photochemical reactions. For the purposes of this analysis, ROG and VOC are considered comparable in terms of mass emissions, and the term ROG is used in this IS-MND.

Air pollutant emissions are generated primarily by stationary and mobile sources. Stationary sources can be divided into two major subcategories:

- Point sources occur at a specific location and are often identified by an exhaust vent or stack. Examples include boilers or combustion equipment that produce electricity or generate heat.
- Area sources are widely distributed and include such sources as residential and commercial water heaters, painting operations, lawn mowers, agricultural fields, landfills, and some consumer products.

Mobile sources refer to emissions from motor vehicles, including tailpipe and evaporative emissions, and can also be divided into two major subcategories:

- On-road sources that may be legally operated on roadways and highways.
- Off-road sources include aircraft, ships, trains, and self-propelled construction equipment.

Air pollutants can also be generated by the natural environment, such as when high winds suspend fine dust particles.

Toxic Air Contaminants

Toxic air contaminants (TACs) are a diverse group of air pollutants that may cause or contribute to an increase in deaths or serious illness, or that may pose a present or potential hazard to human health. TACs include both organic and inorganic chemical substances that may be emitted from a variety of common sources, including gasoline stations, motor vehicles, dry cleaners, industrial operations, painting operations, and research and teaching facilities. One of the main sources of TACs in California is diesel engine exhaust that contains solid material known as diesel particulate matter (DPM). More than 90 percent of DPM is less than one micron in diameter (about $1/70^{th}$ the diameter of a human hair) and thus is a subset of $PM_{2.5}$. Because of their extremely small size, these particles can be inhaled and eventually trapped in the bronchial and alveolar regions of the lungs (CARB 2022).

TACs are different than criteria pollutants because ambient air quality standards have not been established for TACs. TACs occurring at extremely low levels may still cause health effects and it is typically difficult to identify levels of exposure that do not produce adverse health effects. TAC impacts are described by carcinogenic risk and by chronic (i.e., long duration) and acute (i.e., severe but of short duration) adverse effects on human health.

TACs include both organic and inorganic chemical substances. While DPM is a main source, TACs may be emitted from a variety of common sources, including gasoline stations, motor vehicles, dry cleaners, industrial operations, painting operations, and research and teaching facilities. People exposed to toxic air pollutants at sufficient concentrations and durations may have an increased chance of developing cancer or experiencing other serious health effects. These health effects can include damage to the immune system, as well as neurological, reproductive (e.g., reduced fertility), developmental, respiratory, and other health problems (USEPA 2020).

Regulatory Setting

California Clean Air Act

The California CAA, signed into law in 1988, requires all areas of the State to achieve and maintain the CAAQS by the earliest practical date. CARB is the State air pollution control agency and is a part

of CalEPA. CARB is the agency responsible for coordination and oversight of State and local air pollution control programs in California, and for implementing the requirements of the California CAA. CARB overseas local district compliance with federal and California laws, approves local air quality plans, submits the State implementation plans to the U.S. EPA, monitors air quality, determines and updates area designations and maps, and sets emissions standards for new mobile sources, consumer products, small utility engines, off-road vehicles, and fuels.

Air Quality Standards and Attainment

The project site is located in the San Francisco Bay Area Air Basin (SFBAAB), which is under the jurisdiction of the Bay Area Air Quality Management District (BAAQMD). BAAQMD has jurisdiction over much of the nine-county Bay Area, including Alameda County. As the local air quality management agency, BAAQMD is required to monitor air pollutant levels to ensure that the NAAQS and CAAQS are met and, if they are not met, to develop strategies to meet the standards. Depending on whether the standards are met or exceeded, the SFBAAB is classified as being in "attainment" or "nonattainment." In areas designated as non-attainment for one or more air pollutants, a cumulative air quality impact exists for those air pollutants, and the human health impacts associated with these criteria pollutants, presented in Table 6, are already occurring in that area as part of the environmental baseline condition.

Under state law, air districts are required to prepare a plan for air quality improvement for pollutants for which the district is in non-compliance. The SFBAAB is designated a nonattainment area for the federal 8-hour ozone standard, federal $PM_{2.5}$ annual and 24-hour standards, state 8-hour and 1-hour ozone standards, state PM_{10} annual and 24-hour standards, and the state $PM_{2.5}$ annual standard (BAAQMD 2022). This nonattainment status is a result of several factors, such as mobile sources, wood burning, industrial combustion, and dust, in the SFBAAB.

Table 6 Health Effects Associated with Non-Attainment Criteria Pollutants

Pollutant	Adverse Effects
Ozone	(1) Short-term exposures: (a) pulmonary function decrements and localized lung edema in humans and animals and (b) risk to public health implied by alterations in pulmonary morphology and host defense in animals; (2) long-term exposures: risk to public health implied by altered connective tissue metabolism and altered pulmonary morphology in animals after long-term exposures and pulmonary function decrements in chronically exposed humans; (3) vegetation damage; and (4) property damage.
Suspended particulate matter (PM_{10})	(1) Excess deaths from short-term and long-term exposures; (2) excess seasonal declines in pulmonary function, especially in children; (3) asthma exacerbation and possibly induction; (4) adverse birth outcomes including low birth weight; (5) increased infant mortality; (6) increased respiratory symptoms in children such as cough and bronchitis; and (7) increased hospitalization for both cardiovascular and respiratory disease (including asthma).[1]
Suspended particulate matter ($PM_{2.5}$)	(1) Excess deaths from short- and long-term exposures; (2) excess seasonal declines in pulmonary function, especially in children; (3) asthma exacerbation and possibly induction; (4) adverse birth outcomes, including low birth weight; (5) increased infant mortality; (6) increased respiratory symptoms in children, such as cough and bronchitis; and (7) increased hospitalization for both cardiovascular and respiratory disease, including asthma.

Source: United States Environmental Protection Agency 2021

California Low-Emission Vehicle Program

CARB first adopted Low-Emission Vehicle (LEV) program standards in 1990. These first LEV standards ran from 1994 through 2003. LEV II regulations, running from 2004 through 2010, represent continuing progress in emission reductions. As the State's passenger vehicle fleet continues to grow and more sport utility vehicles and pickup trucks are used as passenger cars rather than work vehicles, the more stringent LEV II standards were adopted to provide reductions necessary for California to meet federally mandated clean air goals outlined in the 1994 SIP. In 2012, CARB adopted the LEV III amendments to California's LEV regulations. These amendments, also known as the Advanced Clean Car Program, include more stringent emission standards for model years 2017 through 2025 for both criteria pollutants and greenhouse gas (GHG) emissions for new passenger vehicles.

California On-Road Heavy-Duty Vehicle Program

CARB has adopted standards for emissions from various types of new on-road heavy-duty vehicles. Section 1956.8, Title 13, California Code of Regulations contains California's emission standards for on-road heavy-duty engines and vehicles, and test procedures. CARB has also adopted programs to reduce emissions from in-use heavy-duty vehicles including the Heavy-Duty Diesel Vehicle Idling Reduction Program, the Heavy-Duty Diesel In-Use Compliance Program, the Public Bus Fleet Rule and Engine Standards, and the School Bus Program and others.

Verified Diesel Emission Control Strategies

USEPA and CARB tiered off-road emission standards only apply to new engines and off-road equipment can last several years. CARB has developed Verified Diesel Emission Control Strategies (VDECS), which are devices, systems, or strategies used to achieve the highest level of pollution control from existing off-road vehicles, to help reduce emissions from existing engines. VDECS are designed primarily for the reduction of diesel PM emissions and have been verified by CARB. There are three levels of VDECS, the most effective of which is the Level 3 VDECS. Tier 4 engines are not required to install VDECS because they already meet the emissions standards for lower tiered equipment with installed controls.

California Diesel Risk Reduction Plan

CARB Diesel Risk Reduction Plan has led to the adoption of new state regulatory standards for all new on-road, off-road, and stationary diesel-fueled engines and vehicles to reduce DPM emissions by about 90 percent overall from year 2000 levels. The projected emission benefits associated with the full implementation of this plan, including federal measures, are reductions in DPM emissions and associated cancer risks of 75 percent by 2010, and 85 percent by 2020.

Tanner Air Toxics Act and Air Toxics Hot Spots Information and Assessment Act

Toxic Air Contaminants (TACs) in California are primarily regulated through the Tanner Air Toxics Act (AB 1807) and the Air Toxics Hot Spots Information and Assessment Act of 1987 (AB 2588), also known as the Hot Spots Act. To date, CARB has identified more than 21 TACs and has adopted the USEPA list of Hazardous Air Pollutants (HAPs) as TACs.

Air Quality Management

Because the SFBAAB currently exceeds the federal ozone and $PM_{2.5}$ standards and the state ozone, PM_{10}, and $PM_{2.5}$ standards, BAAQMD is required to implement strategies to reduce pollutant levels to achieve attainment of the NAAQS and CAAQS. BAAQMD adopted the 2017 Clean Air Plan (2017 Plan) as an update to the 2010 Clean Air Plan. The 2017 Plan provides a regional strategy to protect public health and the climate. Consistent with the greenhouse gas (GHG) reduction targets adopted by the state, the 2017 Plan lays the groundwork for a long-term effort to reduce Bay Area GHG emissions to 40 percent below 1990 levels by 2030 and 80 percent below 1990 levels by 2050. To fulfill state ozone planning requirements, the 2017 control strategy includes all feasible measures to reduce emissions of ozone precursors (ROG and NO_X) and reduce transport of ozone and its precursors to neighboring air basins. In addition, the 2017 Plan builds upon and enhances BAAQMD's efforts to reduce emissions of fine particulate matter and toxic air contaminants (TAC) (BAAQMD 2017).

Sensitive receptors are facilities or land uses that include members of the population who are particularly sensitive to the effects of air pollutants, such as children, the elderly, and people with illnesses. According to BAAQMD, sensitive receptors are defined as facilities or land uses that include members of the population that are particularly sensitive to the effects of air pollutants, such as children, the elderly, and people with illnesses. Examples include schools, hospitals and residential areas (BAAQMD 2017). The nearest sensitive receivers are residences approximately 500 feet southwest and 1,000 feet east of the project site.

City of San Leandro General Plan

The current City of San Leandro General Plan contains objectives and policies that minimize air pollutant emissions and reduce population exposed to significant health risk. The following objectives and policies from the City's General Plan are relevant to air quality and apply to the project:

Policy EH-3.3: **Land Use Compatibility.** Discourage new uses with potential adverse air quality impacts, including the mission of toxic air contaminants and fine particulates, near residential neighborhoods, schools, hospitals, nursing homes, and other locations where public health could potentially be affected.

Policy EH-3.4: **Design, Construction, and Operation.** Require new development to be designed and constructed in a way that reduces the potential for future air quality problems, such as odors and the emission of any and all air pollutants. This should be done by:

a) Requiring construction and grading practices that minimize airborne dust and particulate matter;

b) Ensuring that best available control technology is used for operations that could generate air pollutants;

c) Encouraging energy conservation and low-polluting energy sources;

d) Promoting landscaping and tree planting to absorb carbon monoxide and other pollutants;

e) Implementing the complementary strategies to reduce greenhouse gases identified in the Climate Action Plan.

Policy EH-5.4: **Separation from Sensitive Uses.** Provide adequate and safe separation between areas where hazardous materials are present and sensitive uses such as schools, residences, and public facilities. Zoning and other development regulations should include performance standards to avoid safety hazards and achieve compatibility between uses.

Policy LU-10.2: **Off-Site Impacts.** Consider the setting and context of each site when evaluating proposals for development in industrial areas. The potential for impacts on adjacent uses, including the potential for land use conflicts and increased parking demand and truck traffic, should be a key consideration.

Significance Thresholds

The BAAQMD has adopted guidelines for quantifying and determining the significance of air quality emissions in its *California Environmental Quality Act Air Quality Guidelines* (BAAQMD 2022). BAAQMD recommends that lead agencies determine appropriate air quality emissions thresholds of significance based on substantial evidence in the record. BAAQMD's significance thresholds in the updated 2022 *CEQA Air Quality Guidelines* for project operations within the SFBAAB are the most appropriate thresholds for use in determining air quality impacts of the project. BAAQMD developed screening criteria to provide lead agencies and project applicants with a conservative indication of whether a project could result in potentially significant air quality impacts.

Table 7 presents the significance thresholds for construction and operational-related criteria air pollutant and precursor emissions used for the purposes of this analysis. These represent the levels at which a project's individual emissions of criteria air pollutants or precursors would result in a cumulatively considerable contribution to the SFBAAB existing air quality conditions. For the purposes of this analysis, the project would result in a significant impact if construction or operational emissions would exceed any of the thresholds shown in Table 7.

Table 7 Criteria Air Pollutant Significance Thresholds

	Construction Thresholds	Operational Thresholds	
Pollutant	Average Daily Emissions (lbs/day)	Average Daily Emissions (lbs/day)	Maximum Annual Emissions (tons/year)
ROG	54	54	10
NO_X	54	54	10
PM_{10}	82 (exhaust)	82	15
$PM_{2.5}$	54 (exhaust)	54	10
Fugitive Dust	Construction Dust Ordinance or other Best Management Practices	Not Applicable	

OG = reactive organic gases, NO_X = nitrogen oxides, PM_{10} = particulate matter 10 microns in diameter or less, $PM_{2.5}$ = particulate matter 2.5 microns in diameter or less; lbs/day = pounds per day, BAAQMD = Bay Area Air Quality Management District

Source: BAAQMD 2022

BAAQMD maintains rules and regulations to regulate sources of air pollution. Applicable rules and regulations are listed below. Additionally, BAAQMD does not have quantitative thresholds for fugitive dust emissions during construction. Instead, BAAQMD recommends Best Management Practices (BMPs) be implemented to reduce fugitive dust emissions, which are also listed below.

BAAQMD Rules and Regulations

REGULATION 2, RULE 1 (PERMITS–GENERAL REQUIREMENTS)

The BAAQMD regulates new sources of air pollution and the modification and operation of existing sources through the issuances of authorities to construct and permits to operate. Regulation 2, Rule 1 provides an orderly procedure which the project would be required to comply with to receive authorities to construct or permits to operate from the BAAQMD, for new sources of air pollutants, as applicable.

REGULATION 2, RULE 5 (NEW SOURCE REVIEW PERMITTING)

The BAAQMD regulates backup emergency generators, fire pumps, and other sources of TACs through its New Source Review (Regulation 2, Rule 5) permitting process. Although emergency generators are intended to be used only during periods of power outages, monthly testing of each generator is required. BAAQMD limits testing to no more than 50 hours per year. Each emergency generator installed is assumed to meet a minimum of Tier 2 emission standards (before control measures). As part of the permitting process, the BAAQMD limits the excess cancer risk from any facility to no more than 10 per 1-million-population for any permits that are applied for within a 2-year period, and would require any source that would result in an excess cancer risk greater than 1 per 1 million to install Best Available Control Technology for Toxics.

REGULATION 6, RULE 1 (PARTICULATE MATTER–GENERAL REQUIREMENTS)

The BAAQMD regulates PM emissions through Regulation 6 by means of establishing limitations on emission rates, emissions concentrations, and emission visibility and opacity. Regulation 6, Rule 1 provides existing standards for PM emissions that could result during project construction or operation that the project would be required to comply with, as applicable, such as the prohibition of emissions from any source for a period or aggregate periods of more than 3 minutes in any hour which are equal to or greater than 20 percent opacity.

REGULATION 6, RULE 6, (PARTICULATE MATTER–PROHIBITION OF TRACKOUT)

One rule by which the BAAQMD regulates PM includes Regulation 6, Rule 6, which prohibits PM trackout during project construction and operation. Regulation 6, Rule 6 requires the prevention or timely cleanup of trackout of solid materials onto paved public roads outside the boundaries of large bulk material sites, large construction sites, and large disturbed surface sides such as landfills.

REGULATION 8, RULE 3 (ARCHITECTURAL COATINGS)

This rule governs the manufacture, distribution, and sale of architectural coatings and limits the reactive organic gases content in paints and paint solvents. Although this rule does not directly apply to the project, it does dictate the ROG content of paint available for use during the construction.

BAAQMD Best Management Practices for Construction-Related Fugitive Dust Emissions

The applicant shall require all construction contractors to implement the basic construction mitigation measures recommended by BAAQMD to reduce fugitive dust emissions. Emission reduction measures will include, at a minimum, the following measures:

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
2. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.
3. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
4. All vehicle speeds on unpaved roads shall be limited to 15 mph.
5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.
6. All excavation, grading, and/or demolition activities shall be suspended when average wind speeds exceed 20 mph.
7. All trucks and equipment, including their tires, shall be washed off prior to leaving the site.
8. Unpaved roads providing access to sites located 100 feet or further from a paved road shall be treated with a 6- to 12-inch compacted layer of wood chips, mulch, or gravel.
9. Publicly visible signs shall be posted with the telephone number and name of the person to contact at the lead agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's General Air Pollution Complaints number shall also be visible to ensure compliance with applicable regulations.

In the absence of a qualified Community Risk Reduction Plan,[2] BAAQMD has established the following *Thresholds of Significance* for local community risks and hazards associated with TACs and $PM_{2.5}$ for assessing individual source impacts at a local level. Impacts would be significant if:

- The project would result in an increased cancer risk of > 10 in one million
- The project would result in an increased non-cancer (i.e., Chronic or Acute) risk of > 1.0 Hazard Index
- The project would result in an ambient $PM_{2.5}$ concentration increase of > 0.3 $\mu g/m^3$ annual average

A project would be considered to have a cumulatively considerable impact if the aggregate total of current and proposed TAC sources within a 1,000 feet radius of the project fence-line in addition to the project would exceed the *Cumulative Thresholds of Significance*. Impacts would be significant if:

- The project would result in an increased cancer risk of > 100 in one million
- The project would result in an increased non-cancer (i.e., Chronic or Acute) risk of > 10 Hazard Index
- The project would result in an ambient $PM_{2.5}$ concentration increase of > 0.8 $\mu g/m^3$ annual average

Excess cancer risks are defined as those occurring in excess of or above and beyond those risks that would normally be associated with a location or activity if toxic pollutants were not present. Non-

[2] The goal of a Community Risk Reduction Plan is to bring TAC and $PM_{2.5}$ concentrations for the entire community covered by the Plan down to acceptable levels as identified by the local jurisdiction and approved by the Air District. This approach provides local agencies a proactive alternative to addressing communities with high levels of risk on a project-by-project approach. The Air District has developed detailed guidelines for preparing Community Risk Reduction Plans which can be found on the Air District web site at: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/draft_community_risk_reduction_plan_guidelines_may_2010.pdf

carcinogenic health effects are expressed as a hazard index, which is the ratio of expected exposure levels to an acceptable reference exposure level.

BAAQMD defines sensitive receptors as facilities or land uses that include members of the population that are particularly sensitive to the effects of air pollutants, such as children, the elderly, and those with pre-existing health problems. These facilities include schools, parks, daycare centers and pre-schools, medical care facilities, and residential communities (BAAQMD 2022).

BAAQMD establishes operational screening criteria for criteria air pollutants and precursors. If a project meets the screening criteria outlined in Section 4.1.2 and Table 4-1 of the BAAQMD CEQA Guidelines (BAAQMD 2022), the project would not result in the generation of operational-related criteria air pollutants and/or precursors that exceed the emissions thresholds shown in Table 7 above. Although the proposed project would not exceed the size screening level of 452,000 square feet for warehouse projects, the project would include operation of a backup generator, which would be subject to BAAQMD rules and regulations. Therefore, an air quality analysis and quantification of operational project-generated air pollutants is required.

Methodology

The project's construction and operational emissions were estimated using the California Emissions Estimator Model (CalEEMod), version 2022.1.1.19. CalEEMod uses project-specific information including the project's land uses, square footage for different uses (e.g., office building, parking lot, and landscaped area), and location, to model a project's construction and operational emissions. Calculations are included at the end of Appendix B.

Construction emissions modeled include emissions generated by construction equipment used on site and emissions generated by vehicle trips associated with construction, such as workers and vendor trips. Project construction was analyzed based on the applicant-provided information regarding the construction schedule and types of construction equipment used. Standardized assumptions were used where project-specific information was unknown. This analysis also includes all applicable regulatory standards the project would be required to comply with. In particular, the project would comply with the 2022 Building Energy Efficiency Standards (Energy Code), CalGreen, the City of San Leandro's General Plan, and BAAQMD's rules and regulations. Specifically, the project would be required to comply with BAAQMD Regulation 8, Rule 3, which limits the quantity of volatile organic compounds in architectural coatings.

Operational emissions modeled include mobile source emissions (i.e., passenger vehicle and truck emissions), and area source emissions. Mobile source emissions are generated by vehicle trips to and from the project site. The project's trip generation rates are provided in the transportation analysis (Appendix C) prepared by Kittelson and Associates. The project trip generation rates were based on the Institute of Transportation Engineers (ITE), *Trip Generation Manual, 10th Edition*. CalEEMod default fleet mixes were adjusted to reflect light-duty and heavy-duty truck activity at the proposed warehouse, and the model considers emissions from idling in addition to vehicle travel. Area source emissions are generated by landscape maintenance equipment, consumer products and architectural coatings. There would be no air quality emissions associated with energy sources since the project would not utilize natural gas.

Emissions that could result in health risks associated with toxic air contaminants were analyzed using the Hotspots Analysis and Reporting Program (HARP2) program. HARP2was used to calculate cancer risk during project construction and assumed a receptor type of an individual resident over two years of construction.

Impact Analysis

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

The California Clean Air Act requires that air districts create a Clean Air Plan that describes how the jurisdiction will meet air quality standards. The most recently adopted applicable air quality plan is BAAQMD's 2017 Plan. As described in the *Air Quality Management* Section, the 2017 Plan updates the most recent Bay Area ozone plan, the 2010 Clean Air Plan. Pursuant to air quality planning requirements, the 2017 control strategy includes all feasible measures to reduce emissions of ozone precursors – ROG and NO_x – and reduce transport of ozone and its precursors to neighboring air basins. The 2017 Plan builds upon and enhances BAAQMD's efforts to reduce emissions of fine particulate matter and TACs. The 2017 Plan does not include control measures that apply directly to individual development projects. Instead, the control strategy includes control measures related to stationary sources, transportation, energy, buildings, agriculture, natural and working lands, waste management, water, and super GHG-pollutants. The 2017 Plan focuses on two goals:

- Protect air quality and health at the regional and local scale by attaining all national and state air quality standards and eliminating disparities among Bay Area communities in cancer health risk from TACs
- Protect the climate by reducing Bay Area GHG emissions to 40 percent below 1990 levels by 2030, and 80 percent below 1990 levels by 2050

Under BAAQMD's methodology, a determination of consistency with the 2017 Plan should demonstrate that a project:

- Supports the primary goals of the air quality plan
- Includes applicable control measures from the air quality plan
- Does not disrupt or hinder implementation of any air quality plan control measures

A project that would not support the 2017 Plan's goals would not be considered consistent with the 2017 Plan. On an individual project basis, consistency with BAAQMD quantitative thresholds is interpreted as demonstrating support for the clean air plan's goals.

The project would include applicable control measures from the 2017 Plan. Applicable control measures such as green building construction, waste diversion, and water conservation would indicate support for the clean air plan goals on an individual project basis. The proposed project would include construction of seven electric vehicle charging stations. Additionally, the project would utilize energy efficient LED lighting and controls that would exceed the requirements of Title 24 of the California Energy Commission's Building Energy Efficiency Standards, as well as City energy efficiency requirements. Plumbing fixtures used for the proposed project would be high-efficiency fixtures, which would minimize the potential inefficient or wasteful consumption of energy related to water and wastewater. The project would not use natural gas in accordance with City of San Leandro reach codes effective as of January 2023. As shown in the response to criteria b and c (see below), the proposed project would not result in exceedances of BAAQMD 2017 thresholds for criteria air pollutants and thus, would not disrupt or hinder implementation of 2017 Plan control measures. Therefore, the proposed project would be consistent with the criteria of the 2017 Clean Air Plan. Impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

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

The SFBAAB is designated as a nonattainment area for the NAAQS for ozone and PM 2.5, and the CAAQS of ozone, PM_{10} and $PM_{2.5}$. The following subsections discuss emissions associated with construction and operation of the proposed project.

Construction Emissions

Project construction would generate temporary air pollutant emissions associated with fugitive dust (PM_{10} and $PM_{2.5}$) and exhaust emissions from heavy construction equipment and construction vehicles in addition to ROG emissions that would be released during the drying phase of architectural coating. Table 8 summarizes the estimated maximum daily emissions of pollutants during project construction.

Table 8 Estimated Daily Construction Emissions

	Estimated Maximum Daily Emissions (lbs/day)			
Construction Activity	**ROG**	**NO_X**	**Exhaust PM_{10}**	**Exhaust $PM_{2.5}$**
2024	0.28	3.02	0.03	0.03
2025	0.15	0.92	<0.01	<0.01
BAAQMD Thresholds	**54**	**54**	**82**	**54**
Threshold Exceeded?	No	No	No	No

ROG = reactive organic gases, NO_X = nitrogen oxides, PM_{10} = particulate matter 10 microns in diameter or less, $PM_{2.5}$ = particulate matter 2.5 microns in diameter or less; lbs/day = pounds per day, BAAQMD = Bay Area Air Quality Management District

Notes: All emissions modeling was completed using CalEEMod in accordance with applicant-provided information and data. Emissions presented are the highest of the winter and summer modeled emissions.

See the end of Appendix B for updated model output results.

As shown in Table 8, construction-related emissions would not exceed BAAQMD thresholds. Therefore, project construction would not 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. Impacts would be less than significant.

Fugitive Dust

Site preparation and grading may cause wind-blown dust that could contribute particulate matter into the local atmosphere. BAAQMD does not have quantitative thresholds for fugitive dust emissions during construction. Instead, BAAQMD recommends Best Management Practices (BMPs) be implemented to reduce fugitive dust emissions. The project would include implementation of Mitigation Measure AQ-1, BAAQMD Basic Construction Mitigation Measures. The BAAQMD CEQA Air Quality Guidelines consider construction criteria air pollutant emissions impacts that are below BAAQMD thresholds to be less than significant with the incorporation of BAAQMD BMPs. Impacts would be less than significant with implementation of Mitigation Measure AQ-1.

Operational Emissions

Operation of the project would generate criteria air pollutant emissions associated with area sources (e.g., architectural coatings, consumer products, and landscaping equipment), energy sources (i.e., nonrenewable energy sources) and mobile sources (i.e., vehicle trips and truck trips to

and from the project site). Table 9 summarizes the project's maximum annual operational emissions by emission source and maximum daily operational emissions.

Table 9 Estimated Operational Emissions

	Emissions			
Emissions Source	**ROG**	**NO_x**	**PM_{10}**	**$PM_{2.5}$**
Annual Emissions (tons/year)				
Area	0.27	<0.01	<0.01	<0.01
Energy	<0.01	0.02	<0.01	<0.01
Mobile	<0.01	<0.01	<0.01	<0.01
Total Emissions	**0.27**	**0.02**	**<0.01**	**<0.01**
Significance Threshold	**10**	**10**	**15**	**10**
Threshold Exceeded?	**No**	**No**	**No**	**No**
Daily Emissions (pounds/day)				
Average Daily Emissions	1.49	0.13	0.02	0.01
Significance Threshold (pounds/day)	**54**	**54**	**82**	**54**
Threshold Exceeded?	**No**	**No**	**No**	**No**

ROG = reactive organic gases, NO_X = nitrogen oxides, PM_{10} = particulate matter 10 microns in diameter or less, $PM_{2.5}$ = particulate matter 2.5 microns or less in diameter; lbs/day = pounds per day, BAAQMD = Bay Area Air Quality Management District

Note: The updated emissions modeling was completed using CalEEMod in accordance with applicant-provided information and data. Some numbers may not add up due to rounding. Emissions presented are the highest of the winter and summer modeled emissions. See the end of Appendix B for updated model output results.

As shown in Table 9, operational emissions would not exceed BAAQMD regional thresholds for criteria pollutants. Therefore, project operation would not result in a cumulatively considerable net increase of a criteria pollutant for which the project region is in non-attainment, and impacts would be less than significant.

Mitigation Measure

AQ-1 BAAQMD Best Management Practices for Construction-Related Fugitive Dust Emissions

The project applicant shall require all construction contractors to implement the basic construction mitigation measures recommended by BAAQMD to reduce fugitive dust emissions. Emission reduction measures will include, at a minimum, the following measures:

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
2. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.
3. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
4. All vehicle speeds on unpaved roads shall be limited to 15 mph.
5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.

6. All excavation, grading, and/or demolition activities shall be suspended when average wind speeds exceed 20 mph.
7. All trucks and equipment, including their tires, shall be washed off prior to leaving the site.
8. Unpaved roads providing access to sites located 100 feet or further from a paved road shall be treated with a 6- to 12-inch compacted layer of wood chips, mulch, or gravel.
9. Publicly visible signs shall be posted with the telephone number and name of the person to contact at the lead agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's General Air Pollution Complaints number shall also be visible to ensure compliance with applicable regulations.

LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED

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

Certain population groups, such as children, the elderly, and people with health problems, are particularly sensitive to air pollution. Therefore, the majority of sensitive receptor locations are schools, hospitals, and residences. Sensitive receptors in the project vicinity include single- and multi-family residences located 500 feet south of the project site.

The following four criteria based on BAAQMD health risk and hazard significance thresholds were applied to determine if the proposed project would significantly impact the exposure of sensitive receptors to project emissions (Appendix B). The project would have a significant impact if:

- Construction of the project would generate toxic air contaminants (TACs) that exceed health risk significance thresholds;
- The cumulative health impact would exceed cumulative health risk significance thresholds;
- Operation of the project would result in an exceedance of the health risk significance thresholds;
- A carbon monoxide (CO) hotspot assessment demonstrates that the project would result in a CO hotspot which would exceed ambient air quality standards.

These criteria are discussed in the following subsections.

Project Construction TACs

FirstCarbon Solutions conducted an assessment of potential health impacts to surrounding sensitive receptors resulting from construction TAC emissions, using the methodology described under *Methodology* in this section. The detailed assessment is provided in Appendix B.

Diesel particulate matter (DPM) has been identified by CARB as a carcinogenic substance. Major sources of DPM include off-road construction equipment and heavy-duty trucks used for construction. For the purposes of this analysis, DPM is represented as exhaust emissions of $PM_{2.5.}$ Generation of DPM from construction projects typically occurs in a single area for a short period.

BAAQMD developed a set of guidelines and thresholds for estimating health risks resulting from exposure to TACs at the Maximally Impacted Receptor (MIR). For the proposed project, the MIR includes single family residences located approximately 500 feet southwest of the project site on Monogram Street. Table 10 below summarizes $PM_{2.5}$ exhaust emissions generated during project construction.

Table 10 Estimated Cancer Risks and Chronic Non-Cancer Hazards

	Cancer Risk (risk per million)	Chronic Non-Cancer Hazard Index[1]	TAC Concentration (micrograms per cubic meter)
Residential MIR	7.29	<0.01	0.02
Significance Threshold	**10**	**1**	**0.3**
Threshold Exceeded?	**No**	**No**	**No**

MIR = Maximally Impacted Receptor

TAC = toxic air contaminants

[1] Chronic non-cancer hazard index was estimated by dividing the annual DPM concentration (as PM2.5 exhaust) by the DPM reference exposure level of 5 micrograms per cubic meter

Threshold source: BAAQMD 2022. See Appendix B for the cancer health risk model output results. This assessment uses outputs from the CalEEMod modeling conducted using a previous model version, which estimated greater construction emissions than the updated CalEEMod outputs attached to the end of Appendix B. Therefore, this cancer risk assessment is more conservative in that is utilizes greater estimated emissions.

As shown above, the proposed project's construction emissions would not exceed applicable BAAQMD significance thresholds. Project construction would not result in significant health impacts to nearby sensitive receptors.

Cumulative Health Risk Assessment

FirstCarbon Solutions conducted a health risk assessment for potential cumulative impacts from TAC sources within 1,000 feet of a project, which was peer-reviewed by Rincon Consultants. The health risk assessment incorporated BAAQMD pre-calculated air pollutant concentrations and associated traffic volumes for analyzing health risks associated with local roadways; BAAQMD pre-estimated cancer risks and $PM_{2.5}$ concentration increases associated with nearby highways (I-880 and SR 185); emissions from permitted stationary sources; and $PM_{2.5}$ concentrations associated with railroad operations at the western boundary of the project. The results of the construction cumulative health risk assessments are shown in Table 11.

Table 11 Summary of Cumulative Health Impacts at MIR during Construction

Emissions Source		Distance from MIR (feet)	Cancer Risk (per million)	Chronic Non-Cancer Hazard Index	TAC Concentration (micrograms per cubic meter)
Proposed Project					
Project construction	Diesel construction equipment	500	7.29	<0.01	0.02
Roadways					
Existing Local Roadway Network		–	15.3	ND	0.04
Freeways					
Existing Freeways		>1,000	20.32	ND	0.33
Stationary Sources					
The Garage Body Shop (ID 11632)	ND	740	ND	ND	ND
Rodgers Trucking (ID 111710)	Gas Dispensing Facility	570	<0.01	0	0
City of San Leandro (ID 106590)	Gas Dispensing Facility	140	0.59	0	0
Rail					
Existing Rail Line		10	12.28	ND	0.02
Cumulative Health Risks					
Cumulative Maximum with project DPM Emissions			**42.01**	**<0.01**	**0.41**
Significance Threshold			**100**	**10**	**0.8**
Threshold Exceeded?			**No**	**No**	**No**

DPM= diesel particulate matter

MIR = Maximally Impacted Receptor

ND = no data

Source: updated emissions modeling is included at the end of Appendix B

As shown above, the cumulative impacts from project construction and existing sources of TACs would be less than BAAQMD cumulative thresholds of significance. Therefore, the proposed project would not be cumulatively considerable or result in a significant health risk impact.

Operational Toxic Air Pollutants

The proposed project would include operation of a warehouse, which would not include land uses that could result in substantial on-site TAC sources during operation such as metal smelting or refining operations. The proposed project would not include use of stationary source equipment (e.g., back-up generators, fire pumps), and any stationary source equipment which would be greater than 50 horsepower that would require permitting through the BAAQMD to be installed and operated. Compliance with mandatory permitting requirements would ensure that permitted source would not have a significant impact related to health risk impacts.

The proposed project would result in approximately 123 daily truck trips (Appendix C), which was incorporated into operational air quality modeling. As described under threshold (b), operational emissions would not exceed applicable thresholds; therefore, vehicle activities associated with project operation are not anticipated to result in a substantial source of TACs.

CO Hotspots

CO emissions from traffic generated by the proposed project are a concern at the local level because congested intersections can result in high, localized concentrations of CO referred to as CO hotspots. BAAQMD recommends comparing a project's attributes with the following screening criteria as a first step to evaluating whether the project would result in the generation of CO concentrations that would substantially contribute to an exceedance of the *Thresholds of Significance*. The project would result in a less than significant impact to localized CO concentrations if:

1. The project is consistent with an applicable congestion management program established by the county congestion management agency for designated roads or highways, the regional transportation plan, and local congestion management agency plans;
2. The project would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour; or
3. Project-generated traffic would not increase traffic volumes at affected intersections to more than 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, bridge underpass, natural or urban street canyon, below-grade roadway).

Based on the Traffic Impact Analysis prepared for the proposed project (Appendix C), the intersection with the most vehicles per hour in the vicinity of the project site would be the Washington Avenue and Halcyon Drive intersection during the PM peak hour. Under the Cumulative Plus Project conditions analyzed in the Traffic Impact Analysis, this intersection would experience 5,017 vehicles per hour. The proposed project would generate an estimated 40 total PM peak-hour trips. Therefore, the proposed project would not cause a nearby roadway segment or intersection to exceed 44,000 vehicles per hour. Localized CO emissions would not be significant.

Overall, the proposed project would not expose sensitive receptors to substantial pollutant concentrations and impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

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

During construction activities, heavy equipment and vehicles would emit odors associated with vehicle and engine exhaust and during idling. However, these odors would be intermittent and temporary and would cease upon completion of construction activities, and odors would disperse with distance. Overall, project construction would not generate other emissions, such as those leading to odors, affecting a substantial number of people. Construction-related impacts would be less than significant.

Table 5-4 in the BAAQMD 2022 *CEQA Air Quality Guidelines* provides screening distances for land uses that have the potential to generate substantial odor complaints. The uses in the table include wastewater treatment plants, landfills or transfer stations, refineries, composting facilities, confined animal facilities, food processing facility, smelting plants, and chemical manufacturing facilities (BAAQMD 2022). Warehouse buildings are not included in this list, and operation of the project would not generate other emissions, such as those leading to odors, which would affect a substantial number of people. Furthermore, truck idling at the proposed warehouse would be limited to 5 minutes at any location as required by CARB's Commercial Vehicle Idling Airborne Toxics

Control Measure (CARB 2005), which would minimize generation of odors from trucks at the project site. No operational impacts would occur.

LESS-THAN-SIGNIFICANT IMPACT

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4 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, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	□	■	□	□
c. Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	□	□	□	■
d. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	□	■	□	□
e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	□	□	■	□
f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	□	□	□	■

The analysis in this section is based in part upon a biological resource analysis prepared by FirstCarbon Solutions in April 2022 (Appendix D) and an arborist report prepared by HortScience and Bartlett Consulting in February 2022 (Appendix A). Both of these reports were peer reviewed by Rincon Consultants in October 2022, and a revised biological resources analysis was prepared by FirstCarbon Solutions in April 2023. The revised biological resources analysis and peer review memorandum are included in Appendix D, and the arborist report and peer review memorandum are included in Appendix A.

Setting

The project site is currently vacant but has been previously developed. The site contains ruderal vegetation and 23 trees. The site is in an urbanized area, surrounded by paved parking lots, commercial and industrial buildings, and landscaped areas and trees. The site is approximately 2.5 miles east of the San Francisco Bay, 2.2 miles northwest of San Lorenzo Creek, and 1.5 miles south of San Leandro Creek. The site is relatively flat with an elevation of approximately 40 feet.

Regulatory Setting

Federal and State

Regulatory authority over biological resources is shared by federal, state, and local agencies under a variety of laws, ordinances, regulations, and statutes. Primary authority for biological resources lies with the land use control and planning authority of local jurisdictions (in this instance, the City of San Leandro).

The California Department of Fish and Wildlife (CDFW) is a trustee agency for biological resources throughout the state under CEQA and has direct jurisdiction under the California Fish and Game Code (CFGC). Under the California Endangered Species Act and the federal Endangered Species Act, the CDFW and the U.S. Fish and Wildlife Service (USFWS), respectively, have direct regulatory authority over species formally listed as threatened or endangered (and listed as rare for CDFW). Native and/or migratory bird species are protected under the CFGC Sections 3503, 3503.5, and 3511.

Statutes in the Clean Water Act (CWA), CFGC, and CCR protect wetlands and riparian habitat. The U.S. Army Corps of Engineers (USACE) has regulatory authority over wetlands and waters of the United States under Section 404 of the CWA. The State Water Resources Control Board (SWRCB) and the nine Regional Water Quality Control Boards (RWQCBs) ensure water quality protection in California pursuant to Section 401 of the CWA and Section 13263 of the Porter-Cologne Water Quality Control Act. The CDFW regulates waters of the State under the CFGC Section 1600 et seq.

Special-status species are those plants and animals: 1) listed, proposed for listing, or candidates for listing as Threatened or Endangered by the USFWS and the National Marine Fisheries Service (NMFS) under the federal Endangered Species Act; 2) listed or proposed for listing as Rare, Threatened, or Endangered by the CDFW under the California Endangered Species Act; 3) recognized as California Species of Special Concern by the CDFW; 4) afforded protection under CFGC; and 5) occurring on Lists 1 and 2 of the CDFW California Rare Plant Rank (CRPR) system.

Local

Chapter 5-2 of SLMC establishes tree preservation requirements that would apply to the project. Section 5-2-205 establishes all street trees within the city as property of the City, and Section 5-2-220 outlines requirements for street tree planting and replacement.

SAN LEANDRO MUNICIPAL CODE SECTION 5-2-220

(a) Upon approval of the Director, any person may undertake privately, or by agreement with a private nursery or tree service, the planting of a street tree provided that the location, species and manner of planting are acceptable to the Director.

(b) The Director shall prepare a list of those tree species which are acceptable for use as street trees. The Director shall also establish such criteria relating to the location and manner of planting such street trees as will protect public safety and public and private improvement.

(c) All new planting of street trees as replacements for street trees existing on the effective date of this Chapter shall conform to the species and planting criteria set forth in subsection (b) of this section.

(d) There may be imposed a condition of approval for all parcel and subdivision maps that the subdivider plant street trees at such locations and in such manner as may be determined by the Director.

Impact Analysis

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

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

d. *Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?*

As described in the *Setting* section above, the project site is in an urbanized area of San Leandro and has been previously developed with structures, surface parking lots, roadways, and limited perimeter landscaping, including trees (Appendix D). Vegetation observed on the project site included shortpod mustard (*Hirschfeldia incana*), ripgut brome (*Bromus diandrus*), fennel (*Foeniculum vulgare*), wild oat (*Avena fatua*), dandelion (*Taraxacum* sp.), bristly ox tongue (*Helminthotheca echioides*), burclover (*Medicago polymorpha*), cheeseweed (*Malva parviflora*), bamboo (subfamily Bambusoideae), stinkwort (*Dittrichia graveolens*), English ivy (*Helix hedera*), prickly lettuce (*Lactuca serriola*) (Appendix D). The project site contains multiple clusters of ornamental trees. Because of the small and disjunct canopy cover, landscaped or hardscaped understory, and the species composition, these clusters of trees do not meet the characteristics of a woodland (Appendix A).

The site does not contain riparian habitat and is not located within a known regional wildlife movement corridor or other sensitive biological area as indicated by the USFWS Critical Habitat

portal (USFWS 2022; Appendix D). Moreover, according to the San Leandro 2035 General Plan EIR, the project site does not contain habitat for species identified as a candidate, sensitive, or special-status species (City of San Leandro 2016b). Based on the developed nature of the area and surroundings and lack of native or riparian habitat located on or adjacent to the site, no federal-or state-listed endangered, threatened, rare, or otherwise sensitive flora or fauna are anticipated to be located within the project site.

Existing trees on and around the parcels within the area could contain bird nests and birds that are protected under the Migratory Bird Treaty Act (MBTA) (Appendix D). Protected birds include all common songbirds, waterfowl, shorebirds, hawks, owls, eagles, ravens, crows, native doves and pigeons, swifts, martins, swallows, and others, including their body parts (feathers, plumes, etc.), nests, and eggs. The trees located on-site and in the immediate vicinity could provide suitable habitat for migratory or resident nesting birds. No signs of bat roosts were observed during the field survey; however, trees on site and many small openings in the existing structures on-site could provide roosting habitat for bats (Appendix D). The proposed project would involve removal of 10 existing trees on the project site. In addition, construction activity associated with the project may affect protected nesting birds or bats in existing trees. Therefore, mitigation measures BIO-1 and BIO-2 are required to reduce potentially significant impacts to a less-than-significant level.

Mitigation Measure

BIO-1 Nesting Bird Avoidance and Minimization Measures

The following avoidance and minimization measures shall be implemented during project construction activities:

- Initial site disturbance should occur outside the general avian nesting season (February 1 through September 15), if feasible.
- If initial site disturbance occurs in a work area within the general avian nesting season indicated above, a qualified biologist shall conduct a pre-construction nesting bird survey no more than 14 days prior to initial disturbances in the work area. The survey shall include the entire area of disturbance area plus a 50-foot buffer (relevant to non-raptor species) and 300-foot buffer (relevant to raptors) around the site. If active nests are located, all construction work shall be conducted outside a buffer zone from the nest to be determined by the qualified biologist. The buffer should be a minimum of 50 feet for non-raptor bird species and at least 300 feet for raptor species. Larger buffers may be required and/or smaller buffers may be established depending upon the species, status of the nest, and construction activities occurring in the vicinity of the nest. The buffer area(s) shall be closed to all construction personnel and equipment until the adults and young are no longer reliant on the nest site. A qualified biologist shall confirm that breeding/nesting is completed and young have fledged the nest prior to removal of the buffer.
- If construction activities in a given work area cease for more than 14 days, additional surveys shall be conducted for the work area. If active nests are located, the aforementioned buffer zone measures shall be implemented.

BIO-2 Roosting Bats Avoidance and Minimization Measures

A qualified biologist shall survey trees, vegetation, and existing structures with features capable of supporting roosting bats (both maternity and wintering or hibernation roosts) prior to their removal or demolition. Vegetation and existing structures shall be surveyed for bat roosts or evidence of bat

roosting (e.g., guano, urine staining and scent, dead bats) no more than 14 days before the start of disturbance, including vegetation removal. If active roosts are discovered, a protection zone of no less than 50 feet around the active roost shall be established by the qualified biologist. Disturbance may occur within the once active roosting ceases, as determined by the qualified biologist.

Significance After Mitigation

Implementation of Mitigation Measure BIO-1 would reduce the potential for project construction activities to result in the loss of active bird nests through a pre-construction nesting bird survey and establishment of avoidance buffers around active nests, if present. Implementation of Mitigation Measure BIO-2 would reduce the potential for project construction activities to result in the loss of bat roosts through a pre-construction survey and establishment of avoidance buffers around active roosts, if present. Implementation of these measures would reduce project impacts to special-status plant and wildlife species to a less-than-significant level.

LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED

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

The National Wetlands Inventory (NWI) was reviewed to determine if wetland and/or non-wetland waters had been previously documented and mapped on or in the vicinity of the project site (USFWS 2020). No such features occur on or adjacent to the project site. As described in *Setting,* the nearest creeks (San Leandro Creek and San Lorenzo Creek) are approximately 1.5 miles and 2.2 miles from the project site, respectively. Construction and operation of the proposed project would not involve or require the direct removal, filling, hydrological interruption, or other means to the bed, bank, channel, or adjacent upland area of any creek or wetland. No impact would occur.

NO IMPACT

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

As described in the Project Description, construction activities associated with the proposed project would result in the removal of ten trees. As shown in the arborist report prepared for the project site, none of these trees are street trees and therefor are not subject to SLMC Chapter 5-2 (Appendix A). Further, the trees are not designated as historic resources and would not be subject to SLMC Chapter 4-26. Therefore, the project would not conflict with policies regarding tree preservation in SLMC. Impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

f. Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

The project site is not located in an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan (City of San Leandro 2016b). Therefore, the project would not conflict with such a plan and no impact would occur.

NO IMPACT

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5 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?	□	□	■	□

FirstCarbon Solutions prepared a Phase I Cultural Resources Assessment for the proposed project in July 2022, which was peer reviewed by Rincon Consultants in September 2022. A revised Phase I Cultural Resources Assessment was prepared in January 2023. The revised report and the peer review memorandum are included in Appendix CR.

This section provides an analysis of the project's impacts on cultural resources, including historical and archaeological resources, as well as human remains. CEQA requires a lead agency to determine whether a project may have a significant effect on historical resources (Public Resources Code [PRC], Section 21084.1). A historical resource is a resource listed in, or determined to be eligible for listing in, the California Register of Historical Resources (CRHR); a resource included in a local register of historical resources; or any object, building, structure, site, area, place, record, or manuscript a lead agency determines to be historically significant (CEQA Guidelines, Section 15064.5[a] [1-3]).

A resource is considered historically significant in the California Register of Historical Resources if it:

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

In addition, if it can be demonstrated that a project would cause damage to a unique archaeological resource, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. To the extent that resources cannot be left undisturbed, mitigation measures are required (PRC, Section 21083.2[a], [b]).

PRC, Section 21083.2(g) defines a unique archaeological resource as an archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it:

1. Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information;
2. Has a special and particular quality such as being the oldest of its type or the best available example of its type; or
3. Is directly associated with a scientifically recognized important prehistoric or historic event or person.

Methodology

FirstCarbon Solutions conducted a records search at the Northwest Information Center (NWIC) at Sonoma State University on May 4, 2022, for the project site and 0.5 radius beyond the project boundaries. This records search included a search of the National Register of Historic Places (NRHP), the California Register of Historical Resources (CRHR) the California Historical Landmarks list, the California Points of Historical Interest list, and the California Built Environment Resource Directory for Alameda County.

FirstCarbon Solutions sent a Sacred Lands File (SLF) search request to the native American Heritage Commission (NAHC) on April 27, 2022. A response was received on May 29, 2022, indicating that the SLF search was negative. The NAHC included a list of the following tribes that may have knowledge of tribal cultural resources:

- Amah Mutsun Tribal Band of Mission San Juan Bautista
- Costanoan Rumsen Carmel Tribe
- Indian Canyon Mutsun Band of Costanoan
- Muwekma Ohlone Indian Tribe of the San Francisco Bay Area
- The Ohlone Indian Tribe
- Wuksache Indian Tribe/Eshom Valley Band
- The Confederated Villages of Lisjan Nation
- North Valley Yokuts Tribe

The City of San Leandro sent tribal consultation request letters to all provided tribal contacts on June 7, 2022. One response was received from the Confederated Villages of Lisjan Nation, which stated the tribe had no further information or comments regarding the proposed project. No other tribal consultation responses were received.

On May 13, 2022, FirstCarbon Solutions archaeologists surveyed the project site to identify unrecorded cultural resources within the project site. The archaeologists surveyed the site in transects spaced at 15-meter intervals when possible. Existing structures within the project site were also evaluated for eligibility for the NRHP and CRHR.

Impact Analysis

a. Would the project cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?

FirstCarbon Solutions completed a review of historical topographic maps and aerial imagery to ascertain the development history of the project site. Historical topographic maps from 1946 to 2018 indicate that the garage and vehicle repair facility that previously occupied the site was built between 1968 and 1980, and that residences located at 14123, 14173, and 14193 Washington Avenue were constructed after 1980 (Appendix E).

The six structures within the project site appeared to be over 45 years in age and had not been previously evaluated for their historical significance. These structures included the garage and vehicle repair facility buildings and single-family residences. However, these structures were destroyed by structural fires. Accordingly, the properties are not eligible for inclusion in the CRHR or NRHP as they are no longer able to convey historical integrity. No additional prehistoric or historic resources were found within the project site (Appendix CR). Therefore, no built environment resources are present that may be impacted by the project. There would be no impact to built environment resources on the project site.

NO IMPACT

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

The NWIC records search identified 14 cultural resources studies conducted within a 0.5-mile radius of the project site, none of which evaluated portions of the project site. The NWIC search identified one previously recorded cultural resource within a 0.5-mile radius of the project site, which did not occur within the project site (Appendix E).

The project site has been disturbed by development and demolition since approximately 1968. Additionally, substantial development surrounds the project site in all directions. The pedestrian survey conducted in May 2022 found evidence of previous disturbance and development, including subsurface sewer and water utility access points. No prehistoric or historic-period archaeological or built environment resources were identified during the efforts; therefore, it was concluded that no resources would be affected by the project (Appendix E).

As the SLF search was returned with negative results, and no prehistoric resources were identified within the project site, the project site is considered to have low archaeological sensitivity. However, it is always possible that unanticipated archaeological deposits and/or human remains could be encountered and damaged during ground-disturbing activities, especially if those activities would occur in less-disturbed areas. Implementation of Mitigation Measure CR-1 would be required.

Mitigation Measures

CR-1 Unanticipated Discovery of Cultural Resources

In the event that archaeological resources are unexpectedly encountered during ground-disturbing activities, work within 50 feet of the find shall halt and an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology (National Park Service 1983) shall be contacted immediately to evaluate the find. If the resource is determined by the qualified archaeologist to be prehistoric, then a Native American representative shall also be contacted to

participate in the evaluation of the resource. If the qualified archaeologist and/or Native American representative determines it to be appropriate, archaeological testing for CRHR eligibility shall be completed. If the resource proves to be eligible for the CRHR and impacts to the resource cannot be avoided via project redesign, a qualified archaeologist shall prepare a data recovery plan tailored to the physical nature and characteristics of the resource, per the requirements of CCR Guidelines Section 15126.4(b)(3)(C). The data recovery plan shall identify data recovery excavation methods, measurable objectives, and data thresholds to reduce any significant impacts to cultural resources related to the resource. Pursuant to the data recovery plan, the qualified archaeologist and Native American representative, as appropriate, shall recover and document the scientifically consequential information that justifies the resource's significance. The City shall review and approve the treatment plan and archaeological testing as appropriate, and the resulting documentation shall be submitted to the regional repository of the CHRIS, per CCR Guidelines Section 15126.4(b)(3)(C).

Mitigation Measure CR-1 includes procedures for the appropriate handling of unanticipated discoveries of cultural resources. Implementation of Mitigation Measure CR-1 would reduce potential impacts to archeological resources to a less-than-significant level.

LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED

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

The cultural resources records search did not identify cemeteries or archaeological resources containing human remains within the project site (Appendix E). However, the discovery of human remains is always a possibility during ground disturbing activities, as would be required for development within the site. Human burials outside of dedicated cemeteries often occur in prehistoric archaeological contexts. In addition to being potential archaeological resources, human burials have specific provisions for treatment in California Public Resources Code Section 5097. Additionally, the California Health and Safety Code (Sections 7050.5, 7051, and 7054) has specific provisions for the protection of human burial remains. Existing regulations address the illegality of interfering with human burial remains, and protects them from disturbance, vandalism, or destruction. Public Resources Code Section 5097.98 also addresses the disposition of Native American burials, protects such remains, and establishes the NAHC as the entity to resolve any related disputes.

If human remains are found, the State of California Health and Safety Code Section 7050.5 states that no further disturbance may occur until the County coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. In the event of an unanticipated discovery of human remains, the County coroner must be notified immediately. If the human remains are determined to be prehistoric, the coroner will notify the NAHC, which will determine and notify a most likely descendant (MLD). The MLD must complete the inspection of the site within 48 hours of notification and may recommend scientific removal and nondestructive analysis of human remains and items associated with Native American burials. Compliance with Public Resources Code Section 5097.98 and State of California Health and Safety Code Section 7050.5 would ensure that impacts to human remains are less than significant.

LESS-THAN-SIGNIFICANT IMPACT

6 Energy

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Would the project:				
a. Result in a 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?	□	□	■	□

Electricity is primarily consumed by the built environment for lighting, appliances, heating and cooling systems, and other uses such as industrial processes in addition to being consumed by alternative fuel vehicles. Most of California's electricity is generated in state, with approximately 30 percent imported from the northwest and southwest regions of the United States in 2020 (California Energy Commission [CEC] 2021). In addition, approximately 33 percent of California's electricity supply in 2020 came from renewable energy sources, such as wind, solar photovoltaic, geothermal, and biomass (CEC 2021). In 2018, Senate Bill 100 accelerated the state's Renewable Portfolio Standards Program, codified in the Public Utilities Act, by requiring electricity providers to increase procurement from eligible renewable energy and zero-carbon resources to 33 percent of total retail sales by 2020, 60 percent by 2030, and 100 percent by 2045.

The smallest scale at which energy consumption information is readily available is the county level. Therefore, energy consumption in Alameda County is used herein to characterize the city's existing consumption of electricity and natural gas. According to the California Energy Commission (CEC), Alameda County consumed approximately 10,247 GWh of electricity in 2020 from residential and non-residential uses (CEC 2022a). San Leandro is served by East Bay Community Energy (EBCE), which supplies electricity to all accounts (residential, business, and municipal) and is delivered through Pacific Gas and Electric (PG&E) infrastructure. EBCE buys power mainly from clean sources like wind, solar, and hydropower. 'BCE's Board of Directors established the goal of purchasing 100 percent clean power for all customers by 2030 (EBCE 2022). Alameda County consumed approximately 367 millions of therms of natural gas in 2019 in both residential and non-residential uses (CEC 2022b).

Petroleum fuels are primarily consumed by on-road vehicles and trucks and off-road equipment in addition to some industrial processes, with California being one of the top petroleum-producing states in the nation (CEC 2021b). Gasoline, which is used by light-duty cars, pickup trucks, and sport utility vehicles, is the most used transportation fuel in California with 12.6 billion gallons sold in 2020 (CEC 2021c). Diesel, which is used primarily by heavy duty-trucks, delivery vehicles, buses, trains, ships, boats and barges, farm equipment, and heavy-duty construction and military vehicles, is the second most used fuel in California with 1.7 billion gallons sold in 2021 (CEC 2021c). Table 12

summarizes the petroleum fuel consumption for Alameda County, in which the project site would be located, as compared to statewide consumption.

Table 12 2020 Annual Gasoline and Diesel Consumption

Fuel Type	Alameda County (millions of gallons)	California (millions of gallons)	Proportion of Statewide Consumption[1]
Gasoline	492	13,818	3.5%
Diesel	53	1,883	2.8%

[1] For reference, the population of Alameda County (1,651,979 persons) is approximately 4.2 percent of the population of California (39,185,605 persons) (California Department of Finance 2022).
Source: CEC 2021c

Energy consumption is directly related to environmental quality in that the consumption of nonrenewable energy resources releases criteria air pollutant and GHG emissions into the atmosphere. The environmental impacts of air pollutant and GHG emissions associated with the project's energy consumption are discussed in detail in Section 3, *Air Quality*, and Section 8, *Greenhouse Gas Emissions*, respectively.

Regulatory Setting

Title 24, California Code of Regulations (CCR)

CCR, Title 24, Part 6, is California's Energy Efficiency Standards for Residential and Non-Residential Buildings. The CEC established Title 24 in 1978 in response to a legislative mandate to create uniform building codes to reduce California's energy consumption and provide energy efficiency standards for residential and nonresidential buildings. The standards are updated on an approximately three-year cycle to allow consideration and possible incorporation of new efficient technologies and methods. In 2019, the CEC updated Title 24 standards with more stringent requirements effective January 1, 2020. All buildings for which an application for a building permit is submitted on or after January 1, 2020 must follow the 2019 standards. The 2022 update was adopted August 11, 2021 and goes into effect January 1, 2023. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases GHG emissions. The building efficiency standards are enforced through the local plan check and building permit process. Local government agencies may adopt and enforce additional energy standards for new buildings as reasonably necessary due to local climatologic, geologic, or topographic conditions, provided that these standards exceed those provided in Title 24.

Part 6 (Building Energy Efficiency Standards)

Part 6 of Title 24 contains the 2016 Building Energy Efficiency Standards for new residential and CCR Title 24, Part 6 is the Building Energy Efficiency Standards or California Energy Code. This code, originally enacted in 1978, establishes energy-efficiency standards for residential and non-residential buildings in order to reduce California's energy demand. New construction and major renovations must demonstrate their compliance with the current Energy Code through submittal and approval of a Title 24 Compliance Report to the local building permit review authority and the California Energy Commission (CEC). The most current standards are the 2019 Title 24 standards. The 2019 Standards focus on four key areas: 1) smart residential photovoltaic systems; 2) updated thermal envelope standards (preventing heat transfer from the interior to exterior and vice versa);

3) residential and nonresidential ventilation requirements; 4) and nonresidential lighting requirements (CEC 2018). Under the 2019 Standards, nonresidential buildings will be 30 percent more energy-efficient compared to the 2016 Standards. The CEC adopted the 2022 Energy Code on August 11, 2021, and applies starting January 1, 2023. The 2022 Energy Code encourages efficient electric heat pumps, establishes electric-ready requirements, expands solar and battery storage standards, and other stricter requirements.

California Green Building Standards Code (2019), CCR Title 24, Part 11

California's green building code, referred to as CALGreen, was developed to provide a consistent approach to green building within the State. CALGreen lays out the minimum requirements for newly constructed residential and nonresidential buildings to reduce GHG emissions through improved efficiency and process improvements. The requirements pertain to energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and internal air contaminants. It also includes voluntary tiers to further encourage building practices that improve public health, safety, and general welfare by promoting a more sustainable design.

Plan Bay Area 2050

Plan Bay Area 2050 is a State-mandated, integrated long-range transportation, land-use, and housing plan, known as a Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), that would support a growing economy, provide more housing and transportation choices, and reduce transportation-related pollution in the nine-county San Francisco Bay Area (ABAG/MTC 2021). Plan Bay Area 2050 focuses on advancing equity and improving resiliency in the Bay Area by creating strategies in the following four elements: Housing, Economy, Transportation, and Environment. Strategies include allowing higher-density in proximity to transit-corridors, optimizing the existing roadway network, creating complete streets, providing subsides for public transit, and reducing climate emissions, which will reduce overall per capita energy use from non-renewable resources.

San Leandro Municipal Code

San Leandro's Municipal Code Chapter 7.5.7, Energy Code, mandates the implementation of California Building Standards Code, Title 24, Part 6, the California Energy Code, which has specific requirements for building design to reduce energy consumption. Some of the measures in the California Energy Code include the use of certain building materials to ensure a greater degree of energy efficiency during building operation and construction and energy efficiency standards for appliances, lighting amenities, and water fixtures, among other project components. San Leandro's Municipal Code Chapter 3.19 requires all new municipal building projects to meet the United States Green Building Council LEED Silver rating. San Leandro Municipal Code Chapter 7.5.6, Green Building Code, adopts California Building Standards Code, Title 24, part 11, Green Building Standards Code (CALGreen).

San Leandro 2021 Climate Action Plan

In July 2021, the City of San Leandro adopted an update to its Climate Action Plan (CAP), a citywide strategy to reduce greenhouse gas emissions (GHG). Chapter 4 of the CAP includes strategies that target energy reduction through energy efficiency and conservation, including prioritizing increasing and installing renewable energy generation systems and energy storage systems on rental homes, multi-family buildings, and affordable housing; reducing automobile dependency and increasing

transit-oriented development; and committing to developing a reach code limiting natural gas use in new construction, or as directed by the State or regional agencies (City of San Leandro 2021).

2035 General Plan

There are several energy-related policies of the 2035 General Plan in the Open Space and Conservation, Environmental Hazards, Land Use, and Transportation Elements. Policies include using best practices for energy conservation in building and construction, using renewable energy sources where possible, utilizing energy-reducing transportation strategies and alternative fuel vehicles, reducing VMT and increasing active transportation options, and reducing emissions.

Impact Analysis

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

The proposed project would use nonrenewable and renewable resources for construction and operation of the project. The anticipated use of these resources is detailed in the following subsections. Applicant-provided information, the CalEEMod outputs for the air pollutant and GHG emissions modeling (Appendix B), and the vehicle miles traveled (VMT) calculations based on the Traffic Impact Analysis prepared for the project (Appendix C) were used to estimate energy consumption associated with the proposed project.

Construction Energy Demand

The project would require site preparation and grading, including hauling material off-site; building construction; architectural coating; and landscaping and hardscaping. During project construction, energy would be consumed in the form of petroleum-based fuels used to power off-road construction vehicles and equipment on the project site, construction worker travel to and from the project site, and vehicles used to deliver materials to the site. As shown in Table 13, project construction would require approximately 6,988 gallons of gasoline and approximately 44,931 gallons of diesel fuel. These construction energy estimates are conservative because they assume that the construction equipment used in each phase of construction would operate every day of construction.

Table 13 Proposed Project Construction Energy Usage

	Fuel Consumption (gallons)	
Source	**Gasoline**	**Diesel**
Construction Equipment & Vendor/Hauling Trips	–	45,169
Construction Worker Vehicle Trips	6,988	–

Source: Appendix F

Energy use during construction would be temporary in nature, and construction equipment used would be typical of similar-sized construction projects in the region. In addition, construction contractors would be required to comply with the provisions of California Code of Regulations Title 13 Sections 2449 and 2485, which prohibit diesel-fueled commercial motor vehicles and off-road diesel vehicles from idling for more than five minutes and would minimize unnecessary fuel consumption. Construction equipment would be subject to the USEPA Construction Equipment Fuel

Efficiency Standard, which would also minimize inefficient, wasteful, or unnecessary fuel consumption. Furthermore, per applicable regulatory requirements such as 2022 CalGreen or its most recent iteration, the project would comply with construction waste management practices to divert a minimum of 65 percent of construction debris. These practices would result in efficient use of energy necessary to construct the project. In the interest of cost-efficiency, construction contractors also would not utilize fuel in a manner that is wasteful or unnecessary. While the proposed project would include some demolition, grading, site preparation and removal of existing infrastructure, there are no other unique site features of project characteristics that would necessitate the use of construction equipment that would be less energy efficient than at comparable construction sites in other parts of the state. Therefore, the project would not involve the inefficient, wasteful, and unnecessary use of energy during construction, and construction impacts related to energy consumption would be less than significant.

Operational Energy Demand

Operation of the project would contribute to regional energy demand by consuming electricity and gasoline and diesel fuels. Electricity would be used for heating and cooling systems, lighting, appliances, and water and wastewater conveyance, among other purposes. Gasoline and diesel consumption would be associated with vehicle trips generated by customers and employees. Table 14 summarizes estimated operational energy consumption for the proposed project.

Table 14 Estimated Project Annual Operational Energy Consumption

Source	Energy Consumption[1]	
Gasoline	39,599 gallons	4,347 MMBtu
Diesel	109,841 gallons	14,000 MMBtu
Electricity	0.66 GWh	2,254 MMBtu

MMBtu = million metric British thermal units; GWh = gigawatt-hours

[1] Energy consumption is converted to MMBtu for each source

See Appendix F for energy calculation sheets and the updated modeling outputs at the end of Appendix B for CalEEMod output results for electricity usage.

As shown therein, project operation would require approximately 39,599 gallons of gasoline and 109,841 gallons of diesel for transportation fuels, and 0.66 GWh of electricity annually. Vehicle trips associated with future workers, customers, and deliveries would represent the greatest operational use of energy associated with the proposed project.

The project would be required to comply with all standards set in the latest iteration of the California Building Standards Code (California Code of Regulations Title 24), which would minimize the wasteful, inefficient, or unnecessary consumption of energy resources by the built environment during operation. California's CalGreen standards (California Code of Regulations Title 24, Part 11) require implementation of energy-efficient light fixtures and building materials into the design of new construction projects. The City of San Leandro also requires new construction to comply with the California Green Building Standards Code and incorporates requirements to be consistent with the City's greenhouse gas reduction goals. Further, the 2022 Building Energy Efficiency Standards (California Code of Regulations Title 24, Part 6) require newly constructed buildings to meet energy performance standards set by the CEC. These standards are specifically crafted for new buildings to result in energy efficient performance so that the buildings do not result in wasteful, inefficient, or unnecessary consumption of energy. Therefore, it would be expected that building energy consumption associated with the proposed project would not be more inefficient, wasteful, or

unnecessary than for any other similar buildings in the region. Pursuant to CalGreen, all plumbing fixtures used for the proposed project would be high-efficiency fixtures, which would minimize the potential inefficient or wasteful consumption of energy related to water and wastewater.

Project operation would not result in potentially significant environmental effects due to the wasteful, inefficient, or unnecessary consumption of energy, and impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

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

The City of San Leandro's 2035 General Plan and Climate Action Plan (CAP) include energy conservation and energy efficiency strategies intended to enable the State and the City to achieve GHG reduction and energy conservation goals. As shown in Table 15 and Table 16, the project would be consistent with (and not conflict with nor obstruct) State and local renewable energy and energy efficiency plans.

Table 15 Project Consistency with State Renewable Energy and Energy Efficiency Plans

Renewable Energy or Energy Efficiency Plan	Proposed Project Consistency
2019 Integrated Energy Policy Report. The 2019 report highlights the implementation of California's innovative policies and the role they have played in establishing a clean energy economy, as well as provides more detail on several key energy policies, including decarbonizing buildings, increasing energy efficiency savings, and integrating more renewable energy into the electricity system.	**Consistent.** The project would be required to comply with San Leandro Municipal Code (SLMC) Chapter 7.5.7, which mandates the implementation of Title 24. Further, electricity would be provided either by PG&E or EBCE, which source some or all their power from renewable sources. Given these features, the project would involve reduced GHG emissions from power, an increase in energy efficiency savings, and integration of more renewable energy into the electricity system. Therefore, the project would not conflict with or obstruct implementation of the 2019 Integrated Energy Policy Report.
California Renewable Portfolio Standard. California's RPS obligates investor-owned utilities, energy service providers, and community choice aggregators to procure 33 percent total retail sales of electricity from renewable energy sources by 2020, 60 percent by 2030, and 100 percent by 2045.	**Consistent.** EBCE and PG&E supply electricity in the city and they are required to generate electricity that would increase renewable energy resources to 60 percent by 2030 and 100 percent by 2045. EBCE already has an option for residents to source 100 percent renewable energy. Because PCE and PG&E would provide electricity service to the project site, the project would not conflict with or obstruct implementation of the California Renewable Portfolio Standard.
Energy Action Plan. In the October 2005, the CEC and CPUC updated their energy policy vision by adding some important dimensions to the policy areas included in the original EAP, such as the emerging importance of climate change, transportation-related energy issues, and research and development activities. The CEC adopted an update to the EAP II in February 2008 that supplements the earlier EAPs and examines the state's ongoing actions in the context of global climate change. The nine major action areas in the EAP include energy efficiency, demand response, renewable energy, electricity adequacy/reliability/infrastructure, electricity market	**Consistent.** Development facilitated by the project would be required to comply with SLMC Chapter 7.5.7, which mandates the implementation of Title 24. Further, electricity would be provided either by PG&E or EBCE, which source some or all their power from renewable sources. Given these features, the project would involve reduced GHG emissions from power, an increase in energy efficiency savings, and integration of more renewable energy into the electricity system. Therefore, the project would not conflict with or obstruct implementation of the EAP.

Renewable Energy or Energy Efficiency Plan	Proposed Project Consistency
structure, natural gas supply/demand/infrastructure, transportation fuels supply/demand/infrastructure, research/development/demonstration, and climate change.	
AB 1007: State Alternative Fuels Plans. The State Alternative Fuels Plan assessed various alternative fuels and developed fuel portfolios to meet California's goals to reduce petroleum consumption, increase alternative fuels use, reduce GHG emissions, and increase in-state production of biofuels without causing a significant degradation of public health and environmental quality. **Bioenergy Action Plan, EO S-06-06.** The EO establishes the following targets to increase the production and use of bioenergy, including ethanol and biodiesel fuels made from renewable resources: produce a minimum of 20 percent of its biofuels in California by 2010, 40 percent by 2020, and 75 percent by 2050.	**Consistent**. The project would not interfere with or obstruct the production of biofuels in California. Vehicles used by future project site tenants would be fueled by gasoline and diesel fuels blended with ethanol and biodiesel fuels as required by CARB regulations. Therefore, the project would not conflict with or obstruct implementation of the Bioenergy Action Plan or the State Alternative Fuels Plan.
Title 24, CCR – Part 6 (Building Energy Efficiency Standards) and Part 11 (CALGreen). The 2022 Building Energy Efficiency Standards move toward cutting energy use in new homes by more than 50 percent and will require installation of solar photovoltaic systems for single-family homes and multi-family buildings of three stories and less. The CALGreen Standards establish green building criteria for residential and nonresidential projects. The 2022 Standards include the following: increasing the number of parking spaces that must be prewired for electric vehicle chargers in residential development; requiring all residential development to adhere to the Model Water Efficient Landscape Ordinance; and requiring more appropriate sizing of HVAC ducts.	**Consistent.** The project would be required to comply with SLMC Chapter 7.5.7, which mandates the implementation of Title 24. Therefore, the project would not conflict with or obstruct implementation of the Title 24 standards. The project would also be required to comply with CALGreen standards pursuant to Section 7-5-600 of the SLMC. Therefore, the project would not conflict with or obstruct implementation of CALGreen.

Table 16 Project Consistency with the 2035 General Plan and Climate Action Plan

Renewable Energy or Energy Efficiency Plan	Proposed Project Consistency
General Plan Policies	
Goal OSC-8: Energy. Promote the efficient use of energy and the increased use of renewable energy by San Leandro residents and businesses. **Policy OSC-8.2: Planning and Building Practices.** Encourage construction, landscaping, and site planning practices that minimize heating and cooling costs and ensure that energy is efficiently used. Local building codes and other City regulations and procedures should meet or exceed state and federal standards for energy conservation and efficiency and support the City's greenhouse gas reduction goals.	**Consistent.** The project would be required to comply with SLMC Chapter 7.5.7, which mandates the implementation of Title 24. The project would be required to use efficient lighting and appliances. EBCE and PG&E supply electricity in the city and they are required to generate electricity that would increase renewable energy resources to 60 percent by 2030 and 100 percent by 2045. EBCE already has an option with 100 percent renewable energy sources, which is the default option for businesses and residences. Because EBCE and PG&E would provide electricity service to the project site, the project would be consistent with the general plan's goals and policies regarding energy efficiency and renewable energy mix.
Climate Action Plan Measures	
Measure RE-1: Encourage San Leandro households and businesses to switch from PG&E electricity supplies to East Bay Community Energy, and commit to defaulting to Renewable 100 tier for 100-percent renewable energy.	**Consistent.** EBCE and PG&E supply electricity in the City and they are required to generate electricity that would increase renewable energy resources to 60 percent by 2030 and 100 percent by 2045. EBCE already has an option for residents to source 100 percent renewable energy. Because PCE and PG&E would provide electricity service to the project site, the project would not conflict with or obstruct implementation of the City's CAP. The project would be required to comply with SLMC Chapter 7.5.7, which mandates the implementation of Title 24. Therefore, the project would not conflict with or obstruct implementation of the Title 24 standards.

Source: City of San Leandro 2016a, 2021

As shown in Table 15 and Table 16, The project would be consistent with State plans and the City's adopted energy conservation and efficiency strategies contained in the 2035 General Plan, SLMC, and the City's CAP. Therefore, impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

7 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:				
1. 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?	□	□	■	□
2. Strong seismic ground shaking?	□	□	■	□
3. Seismic-related ground failure, including liquefaction?	□	□	■	□
4. Landslides?	□	□	■	□
b. Result in substantial soil erosion or the loss of topsoil?	□	□	■	□
c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?	□	□	■	□
d. Be located on expansive soil, as defined in Table 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 wastewater disposal systems where sewers are not available for the disposal of wastewater?	□	□	□	■
f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	□	■	□	□

Analysis in this section is based in part on the geotechnical investigation prepared for the project by Cornerstone Earth Group in March 2021. The geotechnical investigation is included as Appendix G.

Setting

Active faults are defined by the State of California to be a fault that has surface displacement within the Holocene time (approximately the last 10,000 years). Potentially active faults as defined by the State of California to be a fault that has shown evidence of surface displacement during the Quaternary (last 1.6 million years). Any fault that is sufficiently active describes a fault that has some evidence of Holocene displacement on one or more of its segments or branches. Associated issues with earthquakes include liquefaction, which is the rapid transformation of sediment to a fluid-like state. It occurs when water-saturated, loose to medium dense, relatively clay-free sands and silts are subjected to earthquake ground motion.

The Bay Area contains both active and potentially active faults. Major active faults in the area are the San Andreas, San Gregorio, Hayward, and Calaveras faults. The project site itself is not located within an Earthquake Fault Zone (California Geological Survey [CGS] 2016).

Expansive soils are soils that swell in density and volume as they absorb water and contract as they lose water. Associated problems include cracking and deterioration of roadway surface, as they expand and contract during seasonal wet and dry cycles. The surface soils of the site have been mapped as Clear Lake clay by United States Department of Agriculture Natural Resources Conservation Service (Natural Resources Conservation Service [NRCS] 2018a), which are not known to be expansive.

Regulatory Setting

Alquist-Priolo Earthquake Fault Zoning Act

Following the 1989 Loma Prieta earthquake, the Seismic Hazards Mapping Act (SHMA) was passed by the California legislature in 1990. The SHMA (PRC Chapter 7.8, Section 2690-2699.6) directs the Department of Conservation, California Geological Survey to identify and map areas prone to liquefaction, earthquake-induced landslides and amplified ground shaking. It also requires that agencies only approve projects in seismic hazard zones following site-specific geotechnical investigations to determine if the identified hazard is present and the inclusion of appropriate mitigation to reduce earthquake-related hazards.

Seismic Hazards Mapping Act

The Seismic Hazards Mapping Act of 1990 was enacted, in part, to address seismic hazards not included in the Alquist-Priolo Act, including strong ground shaking, landslides, and liquefaction. Under the Alquist-Priolo Act, the State Geologist is responsible for identifying and mapping seismic hazards. CGS Special Publication 117, adopted in 1997 by the State Mining and Geology Board, constitutes guidelines for evaluating seismic hazards other than surface faulting and for recommending mitigation measures as required by PRC Section 2695(a). In accordance with the mapping criteria, the CGS seismic hazard zone maps identifies areas with the potential for a ground shaking event that corresponds to 10 percent probability of exceedance in 50 years.

The purpose of the Seismic Hazards Mapping Act is to reduce the threat to public health and safety and to minimize the loss of life and property by identifying and mitigating seismic hazards. Cities, counties, and state agencies are directed to use seismic hazard zone maps developed by CGS in their

land-use planning and permitting processes. The Seismic Hazards Mapping Act requires site-specific geotechnical investigations prior to permitting most urban development projects in seismic hazard zones.

California Building Code (CBC)

The California Building Code (CBC), Title 24, Part 2, provides building codes and standards for the design and construction of structures in California. The purpose of the CBC is to establish minimum standards to safeguard the public health, safety, and general welfare through structural strength, means of egress facilities, and general stability by controlling the design, construction, quality of materials, use and occupancy, location, and maintenance of building and structures. The CBC contains specific requirements for seismic safety, excavation, foundations, retaining walls, soil conditions, and site demolition. It also regulates grading activities, including drainage and erosion control. Chapter 16 of the CBC contains definitions of seismic sources and the procedure used to calculate seismic forces on structures.

The CBC is updated every three years by order of the legislature, with supplements published in intervening years. State law mandates that local governments enforce the CBC. In addition, a city and/or county may establish more restrictive building standards reasonably necessary because of local climatic, geological, or topographical conditions. The 2022 CBC is based on the International Building Code.

City of San Leandro 2035 General Plan

Policy EH-1. **Risk Management.** Minimize risks from geologic, seismic, flood, and climate change-related hazards by ensuring the appropriate location, site planning, and design of new development. The City's development review process, and its engineering and building standards, should ensure that new construction is designed to minimize the potential for damage.

Impact Analysis

a.1. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving 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?

The project site is not within an Earthquake Fault Zone as defined by the Alquist-Priolo Earthquake Fault Zoning Act, and no known active or potentially active faults exist on the site (CGS 2016). The nearest known Alquist-Priolo Earthquake Fault Zone is the Hayward Fault zone located approximately one mile east of the site. Direct ground rupture of a known earthquake fault would be unlikely, and impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

a.2. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking?

The nearest mapped active fault, the Hayward Fault, is one mile east of the project site (CGS 2016). The United States Geological Survey (USGS) has stated that there is a 72 percent chance of at least one magnitude 6.7 or greater earthquake striking the San Francisco Bay region between 2014 and 2043 (USGS 2016). Therefore, the site could be subjected to at least one moderate to severe

earthquake that would cause strong ground shaking. Project construction would be required to comply with the seismic safety requirements in the International Building Code, the CBC, and the City of San Leandro Building Code. Compliance with such requirements would reduce seismic ground shaking impacts to the maximum extent practicable with current engineering methods. Therefore, impacts related to strong seismic ground shaking would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

a.3. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction?

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

Soils that are most susceptible to liquefaction are clean, loose, uniformly graded, saturated, fine-grained sands that lie close to the ground surface. The project site is identified as having Clear Lake clay, which are defined as poorly-drained and fine-textured (NRCS 2018b). The project site is located in an identified liquefaction zone, according to maps prepared by CGS (CGS 2016).

Most land in San Leandro is underlain by materials that have moderate to very high liquefaction potential. In addition, according to the USGS the project site is in an area that experiences moderate liquefaction susceptibility (USGS 2019). However, the proposed structure would be required to be constructed in compliance with the California Building Code (CBC), which requires structures to be designed and constructed to resist liquefaction potential from seismic-related ground failure.

The geotechnical investigation prepared for the project (Appendix G) analyzed the potential for liquefaction induced settlements, and provided recommendations for the design of the proposed structure's foundation. Recommendations for the proposed structure's foundation include the removal of existing fill, exploration test pits to determine depth of fills prior to grading, subgrade stabilization measures including scarification and drying. Pursuant to SLMC Section 7-5-100, the City of San Leandro adopted the CBC; Section 1803.1.1.3 of the CBC states that the building department of each locality (in this case the San Leandro Building & Safety Division) would need to approve the soil investigation or geotechnical investigation (Appendix G) if it determines that the recommended action is likely to prevent structural damage. As a condition of the building permit, the approved recommended action would be incorporated into project construction. Therefore, pursuant to the SLMC and the CBC, the recommendations included in the geotechnical investigation (Appendix G) would be incorporated into the design of the project and verified by the City prior to issuance of a building permit.

With adherence to SLMC, the CBC, and implementation of recommendations in the design-level geotechnical investigation, impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

a.4. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving landslides?

Earthquakes can trigger landslides that may cause injuries and damage many types of structures. Landslides are typically a hazard on or near slopes or hillside areas, rather than on generally level areas, like the project site. The project site is not within an area mapped as having landslides (CGS 2019). Therefore, the project has a low potential for slope instability occurring at the site and impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

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

Project construction, particularly grading and site preparation, could result in erosion and loss of topsoil from the project site. The project developer would be required to follow applicable CBC and SLMC requirements to reduce soil erosion, including SLMC Section 7-12-230, which requires erosion and sedimentation control measures and drainage plans to be prepared by a civil engineer and submitted to the City for approval prior to issuance of a grading permit. Where appropriate, the control measures must include measures including, but not limited to, short-term erosion control planting, waterproof slope covers, stormwater retention basins, and devices to trap, store, and filter sediment during project construction and operation. Compliance with federal, State, and City regulations would reduce impacts related to soil erosion and the loss of topsoil to less than significant levels.

LESS-THAN-SIGNIFICANT IMPACT

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

Expansive soils are those that have a potential to undergo significant changes in volume, either shrinking or swelling, due to their composition and moisture content. Periodic shrinking and swelling of expansive soils can cause extensive damage to other structures and roads. According to the NRCS, soil within and around the project site consists of Clear Lake clay. Clear Lake clay is very deep, poorly drained soil formed from mixed rock resources, and are not known to be expansive (NRCS 2018a; 2018b). Therefore, the project would not be located on expansive soil, and impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

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

The project site would be served by the municipal sewer system and would not require the installation of an on-site septic tank or alternate wastewater treatment systems. Therefore, no impacts from septic systems or alternative wastewater disposal systems would occur.

NO IMPACT

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

Paleontological resources, or fossils, are the evidence of once-living organisms preserved in the rock record. They include both the fossilized remains of ancient plants and animals and the traces thereof (e.g., trackways, imprints, burrows, etc.). Paleontological resources are not found in "soil" but are contained within the geologic deposits or bedrock that underlies the soil layer. Typically, fossils are greater than 5,000 years old (i.e., older than middle Holocene in age) and are typically preserved in sedimentary rocks. Although rare, fossils can also be preserved in volcanic rocks and low-grade metamorphic rocks under certain conditions (Society of Vertebrate Paleontology [SVP] 2010). Fossils occur in a non-continuous and often unpredictable distribution within some sedimentary units, and the potential for fossils to occur within sedimentary units depends on several factors. It is possible to evaluate the potential for geologic units to contain scientifically important paleontological resources, and therefore evaluate the potential for impacts to those resources and provide mitigation for paleontological resources if they are discovered during construction of a development project.

Rincon evaluated the paleontological sensitivity of the geologic units that underlie the project site to assess the project's potential for significant impacts to scientifically important paleontological resources. The analysis was based on the results of a review of existing information in the scientific literature regarding known fossils within geologic units mapped at the project site. According to the SVP (2010) classification system, geologic units can be assigned a high, low, undetermined, or no potential for containing scientifically significant nonrenewable paleontological resources. Following the literature review, a paleontological sensitivity classification was assigned to each geologic unit mapped within the project site. This criterion is based on rock units within which vertebrate or significant invertebrate fossils have been determined by previous studies to be present or likely to be present. The potential for impacts to significant paleontological resources is based on the potential for ground disturbance to directly impact paleontologically sensitive geologic units. The project site is located in the Coast Ranges geomorphic province, one of the eleven geomorphic provinces of California (California Geological Survey 2002). The Coast Ranges extend along the majority of California's coast from the California-Oregon border to Point Arguello in Santa Barbara County in the south and consist of northwest-trending mountain ranges and valleys. The Coast Ranges are composed of Mesozoic and Cenozoic sedimentary, igneous, and metamorphic strata. The eastern side is characterized by strike-ridges and valleys in the Upper Mesozoic strata. The Coast Ranges province runs parallel to and overlaps the San Andreas Fault in some areas (California Geological Survey 2002). Locally, the project site is on the East Bay Plain which lies between the San Lorenzo Hills to the east and San Francisco Bay to the west.

The region surrounding the project site was mapped by Graymer (2000), who identified a single geologic unit, Holocene alluvial fan and fluvial deposits, underlying the project site. Holocene alluvial fan and fluvial deposits are brown to tan, medium-dense sand that fines upward to sandy or silty clay. Holocene sediments are generally considered too young (i.e., less than 5,000 years old) to preserve paleontological resources (SVP 2010). Therefore, Holocene alluvial fan and fluvial deposits have low paleontological sensitivity.

A geotechnical report conducted for this project encountered 3 feet of artificial fill in each of its test borings, below which they encountered alluvial sediments consisting of sandy clay with interbeds of silty sand down to the maximum observed depth of 40 feet (Appendix GEO). These observations are consistent with the Holocene alluvial fan and fluvial deposits mapped by Graymer (2000).

Ground-disturbing activities for this project will include overall grading of the site and excavations for stormwater catch basins and storm drains. These activities are anticipated to reach up to 12 feet below the current grade. The depth at which these sediments become old enough to preserve paleontological resources (i.e., 5,000 years old; SVP 2010) is unknown. Maguire and Holroyd (2016) report Pleistocene-aged fossils (e.g., mammoth, horse, ground sloth) at depths as shallow as 9 feet below the current surface from sediments mapped as Holocene at the surface in Santa Clara County. Although, this project is in Alameda County rather than Santa Clara County, the data of Maguire and Holroyd (2016) does show the depths at which fossil-bearing sediments can occur in the San Francisco Bay area. Therefore, the 12-foot-deep excavations anticipated for this project may impact sediments that are old enough to contain paleontological resources. As a result, mitigation measure GEO-1 is recommended to ensure that potential impacts to paleontological resources are less than significant by providing training to construction personnel on the appearance of fossils and establishing procedures to be followed in the event that an unanticipated paleontological resource is discovered. These procedures will effectively mitigate impacts to paleontological resources through their recovery, identification, and curation.

GEO-1 Unanticipated Fossil Discovery

PALEONTOLOGICAL WORKER ENVIRONMENTAL AWARENESS PROGRAM

Prior to the start of construction, a Qualified Professional Paleontologist, as defined by SVP (2010), or their designee shall conduct a paleontological Worker Environmental Awareness Program (WEAP) training for construction personnel regarding the appearance of fossils and the procedures for notifying paleontological staff should fossils be discovered by construction personnel.

UNANTICIPATED DISCOVERY OF PALEONTOLOGICAL RESOURCES

The project developer shall include a standard inadvertent discovery clause in every construction contract to inform contractors of this requirement. If a potential fossil is discovered during project construction, construction activity within 50 feet of the find shall cease until the discovery is examined by a Qualified Professional Paleontologist. If the find is determined to be significant, the Qualified Professional Paleontologist shall direct all mitigation measures related to paleontological resources consistent with the SVP (2010) standards.

LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED

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8 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?	□	□	■	□

FirstCarbon Solutions prepared an Air Quality and Greenhouse Gas Emissions Impacts Report (AQ-GHG Report) in August 2022, which was peer-reviewed by Rincon Consultants in September 2022. FirstCarbon Solutions prepared a revised AQ-GHG Report in April 2023. Rincon Consultants also prepared updated air quality modeling in September 2023. The revised Air Quality and Greenhouse Gas Emissions Impacts Report, peer review memorandum, and updated air quality modeling are included as Appendix B.

Overview of Climate Change and Greenhouse Gases

Climate change is the observed increase in the average temperature of the Earth's atmosphere and oceans along with other substantial changes in climate (such as wind patterns, precipitation, and storms) over an extended period of time. Climate change is the result of numerous, cumulative sources of GHG emissions contributing to the "greenhouse effect," a natural occurrence which takes place in Earth's atmosphere and helps regulate the temperature of the planet. The majority of radiation from the sun hits Earth's surface and warms it. The surface, in turn, radiates heat back towards the atmosphere in the form of infrared radiation. Gases and clouds in the atmosphere trap and prevent some of this heat from escaping into space and re-radiate it in all directions.

GHG emissions occur both naturally and as a result of human activities, such as fossil fuel burning, decomposition of landfill wastes, raising livestock, deforestation, and some agricultural practices. GHGs produced by human activities include carbon dioxide (CO_2), methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. Different types of GHGs have varying global warming potentials (GWP). The GWP of a GHG is the potential of a gas or aerosol to trap heat in the atmosphere over a specified timescale (generally, 100 years). Because GHGs absorb different amounts of heat, a common reference gas (CO_2) is used to relate the amount of heat absorbed to the amount of the gas emitted, referred to as "carbon dioxide equivalent" (CO_2e), which is the amount of GHG emitted multiplied by its GWP. Carbon dioxide has a 100-year GWP of one. By contrast, methane has a GWP of 30, meaning its global warming effect is 30 times greater

than CO_2 on a molecule per molecule basis (Intergovernmental Panel on Climate Change [IPCC] 2022).[3]

The principal climate change gases resulting from human activity that enter and accumulate in the atmosphere are listed below:

- **Carbon Dioxide**. CO_2 enters the atmosphere through the burning of fossil fuels (oil, natural gas, and coal), solid waste, trees and wood products, and chemical reactions (e.g., the manufacture of cement). CO_2 is also removed from the atmosphere (or "sequestered") when it is absorbed by plants as part of the biological carbon cycle.
- **Methane**. CH_4 is emitted during the production and transport of coal, natural gas, and oil. CH_4 emissions also result from livestock and agricultural practices and the decay of organic waste in municipal solid waste landfills.
- **Nitrous Oxide**. N_2O is emitted during agricultural and industrial activities as well as during combustion of fossil fuels and solid waste.
- **Hydrofluorocarbons (HFC)**. HFCs are one of several high global warming potential (GWP) gases that are not naturally occurring and are generated from industrial processes. HFC (refrigerant) emissions from vehicle air conditioning systems occur due to leakage, losses during recharging, or release from scrapping vehicles at end of their useful life.
- **Perfluorocarbons (PFC)**. PFCs are another high GWP gas that are not naturally occurring and are generated in a variety of industrial processes.
- **Sulfur Hexafluoride (SF_6)**. SF_6 is another high GWP gas that is not naturally occurring and is generated in a variety of industrial processes.

There are uncertainties as to exactly what the climate changes will be in various local areas of the earth. There are also uncertainties associated with the magnitude and timing of other consequences of a warmer planet: sea level rise, spread of certain diseases out of their usual geographic range, the effect on agricultural production, water supply, sustainability of ecosystems, increased strength and frequency of storms, extreme heat events, increased air pollution episodes, and the consequence of these effects on the economy.

Regulatory Setting

California Global Warming Solutions Act of 2006 (Assembly Bill 32, and Senate Bill 32, and Assembly Bill 1279)

The "California Global Warming Solutions Act of 2006," (Assembly Bill [AB] 32), outlines California's major legislative initiative for reducing GHG emissions. AB 32 codifies the statewide goal of reducing GHG emissions to 1990 levels by 2020 and requires CARB to prepare a Scoping Plan that outlines the main state strategies for reducing GHG emissions to meet the 2020 deadline. In addition, AB 32 requires CARB to adopt regulations to require reporting and verification of statewide GHG emissions. Based on this guidance, CARB approved a 1990 statewide GHG level and 2020 target of 431 million metric tons (MMT) of carbon dioxide equivalents (CO_2e), which was achieved in 2016. CARB approved the Scoping Plan on December 11, 2008, which included GHG emission reduction strategies related to energy efficiency, water use, and recycling and solid waste, among others

[3] The Intergovernmental Panel on Climate Change's (2022) *Sixth Assessment Report* determined that methane has a GWP of 30. However, the 2017 Climate Change Scoping Plan published by the California Air Resources Board uses a GWP of 25 for methane, consistent with the Intergovernmental Panel on Climate Change's (2007) *Fourth Assessment Report*. Therefore, this analysis utilizes a GWP of 25.

(CARB 2009). Many of the GHG reduction measures included in the Scoping Plan (e.g., Low Carbon Fuel Standard, Advanced Clean Car standards, and Cap-and-Trade) have been adopted since the Scoping Plan's approval.

The CARB approved the 2013 Scoping Plan update in May 2014 (CARB 2014). The update defined the CARB's climate change priorities for the next five years, set the groundwork to reach post-2020 statewide goals, and highlighted California's progress toward meeting the "near-term" 2020 GHG emission reduction goals defined in the original Scoping Plan. It also evaluated how to align the state's longer term GHG reduction strategies with other state policy priorities, including those for water, waste, natural resources, clean energy, transportation, and land use (CARB 2014).

On September 8, 2016, the governor signed Senate Bill (SB) 32 into law, extending the California Global Warming Solutions Act of 2006 by requiring the state to further reduce GHG emissions to 40 percent below 1990 levels by 2030 (the other provisions of AB 32 remain unchanged). On December 14, 2017, the CARB adopted the 2017 Scoping Plan, which provides a framework for achieving the 2030 target. The 2017 Scoping Plan relies on the continuation and expansion of existing policies and regulations, such as the Cap-and-Trade Program, and implementation of recently adopted policies and legislation, such as SB 1383 and SB 100 (discussed later). The 2017 Scoping Plan also puts an increased emphasis on innovation, adoption of existing technology, and strategic investment to support its strategies. As with the 2013 Scoping Plan update, the 2017 Scoping Plan does not provide project-level thresholds for land use development. Instead, it recommends that local governments adopt policies and locally appropriate quantitative thresholds consistent with statewide per capita goals of six MT CO_2e by 2030 and two MT CO_2e by 2050 (CARB 2017). As stated in the 2017 Scoping Plan, these goals may be appropriate for plan-level analyses (city, county, sub-regional, or regional level), but not for specific individual projects because they include all emissions sectors in the state (CARB 2017).

AB 1279, "The California Climate Crisis Act," was passed on September 16, 2022 and declares the State would achieve net zero GHG emissions as soon as possible, but no later than 2045, and to achieve and maintain net negative GHG emissions thereafter. In addition, the bill states that the State would reduce GHG emissions by 85 percent below 1990 levels no later than 2045. CARB's 2022 Scoping Plan for achieving Carbon Neutrality lays out a path to achieve AB 1279 targets and SB 32 (CARB 2022). The actions and outcomes in the 2022 Scoping Plan would achieve significant reductions in fossil fuel combustion by deploying clean technologies and fuels, further reductions in short-lived climate pollutants, support for sustainable development, increased action on natural and working lands to reduce emissions and sequester carbon, and the capture and storage of carbon.

City of San Leandro 2035 General Plan

The City of San Leandro's 2035 General Plan, adopted in September 2016, lists several GHG-reduction goals, policies, and actions as part of the Transportation Element and Open Space, Parks, and Conservation Element that support the goal of reducing GHG emissions. The following goals and policies are applicable to the proposed project (City of San Leandro 2016):

Policy T-5.2 **Evaluating Development Impacts.** Use vehicle miles traveled (VMT) as the primary metric for evaluating the transportation impacts of new development proposals. Traffic impact studies may also consider the total number of trips generated and the resulting impact on traffic volumes and congestion (e.g., "Level of Service"), but VMT shall provide the primary basis for determining appropriate mitigation measures.

Goal OSC-7 Promote recycling, water conservation, green building, and other programs which reduce greenhouse gas emissions and create a more sustainable environment.

Policy OSC-7.8 **Green Building.** Promote green building in new construction and remodels.

Goal OSC-8 Promote the efficient use of energy and the increased use of renewable energy by San Leandro residents and businesses.

Policy OSC-8.1 **Conservation and Energy Efficiency.** Strongly advocate for increased energy conservation by San Leandro residents and businesses, and ensure that the City itself is a conservation role model.

Policy OSC-8.2 **Planning and Building Practices.** Encourage construction, landscaping, and site planning practices that minimize heating and cooling costs and ensure that energy is efficiently used. Local building codes and other City regulations and procedures should meet or exceed state and federal standards for energy conservation and efficiency, and support the City's greenhouse gas reduction goals.

City of San Leandro Municipal Code

Section 3.24.400 of the SLMC requires commercial business organic waste generators and multi-family dwelling units to participate in organic waste collection services. These uses must subscribe to collection services for compost containers, recycling containers, and landfill containers.

Section 7.5.600 of the SLMC requires compliance with the California Green Building Code, Title 24, Part 11, which details requirements for energy conservation and green design. Section 7.5.700 of the SLMC requires compliance with the California Energy Code, Title 24, Part 6, which details requirements for the use of energy-efficient design and technologies as well as provisions for incorporating renewable energy resources into building design.

Significance Thresholds

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

According to *CEQA Guidelines* Section 15183.5(b), projects can tier from a qualified GHG reduction plan, which allows for project-level evaluation of GHG emissions through the comparison of the project's consistency with the GHG reduction policies included in a qualified GHG reduction plan. This approach is considered by the Association of Environmental Professionals (2016) in its white paper, *Beyond Newhall and 2020: A Field Guide to New CEQA Greenhouse Gas Thresholds and Climate Action Plan Targets for California*, to be the most defensible approach presently available under CEQA to determine the significance of a project's GHG emissions.

The 2022 BAAQMD *CEQA Thresholds for Evaluating the Significance of Climate Impacts From Land Use Projects and Plans* guidance document contains two approaches for determining significance of GHGs (BAAQMD 2022). The two approaches are as follows:

1. Projects must include, at a minimum, the following project design elements:
   - **Buildings**
     - The project will not include natural gas appliances or natural gas plumbing (in both residential and nonresidential development).
     - The project will not result in any wasteful, inefficient, or unnecessary energy usage as determined by the analysis required under CEQA Section 21100(b)(3) and Section 15126.2(b) of the State CEQA Guidelines.
   - **Transportation**
     - Achieve a reduction in project-generated vehicle miles traveled (VMT) below the regional average consistent with the current version of the California Climate Change Scoping Plan (currently 15 percent) or meet a locally adopted Senate Bill 743 VMT target, reflecting the recommendations provided in the Governor's Office of Planning and Research's Technical Advisory on Evaluating Transportation Impacts in CEQA:
       - Residential projects: 15 percent below the existing VMT per capita
       - Office projects: 15 percent below the existing VMT per employee
       - Retail projects: no net increase in existing VMT
     - Achieve compliance with off-street electric vehicle requirements in the most recently adopted version of CALGreen Tier

2. Projects must be consistent with a local GHG reduction strategy that meets the criteria under State CEQA Guidelines Section 15183.5(b).

According to the 2022 BAAQMD CEQA Thresholds for Evaluating the Significance of Climate Impacts From Land Use Projects and Plans, a qualified GHG reduction strategy that can enable CEQA streamlining benefits for future land use projects must:

- Quantify GHG emissions, both existing and projected over a specified period, resulting from activities in a defined geographic area
- Establish a level, based on substantial evidence, below which the contribution to GHG emissions from activities covered by the plan would not be cumulatively considerable
- Identify and analyze the GHG emissions resulting from specific actions or categories of actions anticipated in the geographic area
- Specify measures or a group of measures, including performance standards, that substantial evidence demonstrates, if implemented on a project-by-project basis, would collectively achieve the specified emissions level
- Establish a mechanism to monitor the plan's progress toward achieving the level and to require amendment if the plan is not achieving specified levels
- Be adopted in a public process following environmental review

This analysis will evaluate the project in terms of consistency with the San Leandro 2021 Climate Action Plan, a local GHG reduction strategy that contains all of the components required under Criterion 2 above.

Methodology

GHG emissions were modeled under the same assumptions and methodology outlined in Section 3, *Air Quality.* As discussed under *Significance Thresholds* above, projects consistent with a qualified climate action plan (CAP) are assumed to have less-than-significant impacts related to GHG emissions. Therefore, the proposed project's estimated GHG emissions during construction and operation are presented for informational purposes only.

Impact Analysis

a. Would the project generate GHG 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?

Construction

The proposed project would generate GHG emissions during construction activities, resulting from emission sources such as construction equipment, haul trucks, vendor deliveries, and construction worker vehicles. Although these emissions would be temporary and short-term in nature, they could represent a substantial contribution of GHG emissions. Construction emissions were modeled using CalEEMod. Table 17 below summarizes the annual construction GHG emissions in terms of metric tons (MT) of carbon dioxide equivalents (CO_2e) per year. BAAQMD has not established a quantitative significance threshold for evaluating construction related emissions, but it does recommend quantifying and disclosing construction-generated GHG emissions. The total emissions generated during construction were amortized over 30 years, a typical estimated operational lifetime for a project, and added to the operational emissions.

Table 17 Project Construction GHG Emissions

Construction Year	Total GHG Emissions (MT CO_2e)
2024	365
2025	14.7
Total Construction Emissions	**379.7**
Construction Emissions Amortized over 30 years	**13**

GHG = greenhouse gas

MT CO_2e = metric tons of carbon dioxide equivalent

Totals may not sum due to rounding. Construction emissions are amortized over the 30-year lifetime of the project.

Source: updated modeling outputs are included at the end of Appendix B

Operation

Operational GHG emissions would occur over the life of the project. Sources of operation GHG emissions include passenger vehicle and truck use associated with the project, stationary sources, electricity and power, area sources such as landscaping, water use, and waste generation. Table 18 summarizes estimated annual GHG emissions from the project's operational activities.

Table 18 Project Operational GHG Emissions

GHG Emissions Source	Total GHG Emissions (MT CO_2e per year)
Warehouse	584.5
Office Use	129.2
Parking Lot	44.6
Landscaping	0.6
Amortized Construction Emissions	13
Total Annual Operational Emissions	**772**

GHG = greenhouse gas

MT CO_2e = metric tons of carbon dioxide equivalent

Mobile sources include estimated passenger vehicle and truck use associated with the project.

Totals may not sum due to rounding. Construction emissions are amortized over the 30-year lifetime of the project.

Source: updated modeling outputs are included at the end of Appendix B

The City of San Leandro updated and approved its CAP in July 2021, which outlines strategies for reducing GHG emissions through various activities, including but not limited to water conservation, energy conservation, land use design and orientation, transportation-oriented development, and renewable energy source use. According to the CAP, "The CAP is prepared consistent with CEQA Guidelines for Plans for the Reduction of Greenhouse Gas Emissions (CEQA Guidelines Section 15183.5). Additionally, the CAP meets the criteria from the BAAQMD CEQA Thresholds for Evaluating the Significance of Climate Impacts from Land Use Projects and Plans, as described under *Significance Thresholds.* This allows the 2021 CAP to support and streamline environmental review of GHG emissions related to future development projects within the city." Therefore, a project that would comply with the goals and policies of the City's CAP would have less-than-significant GHG impacts.

Table 19 below compares the project's consistency with the City's CAP. As shown therein, the proposed project would be consistent with the CAP and accordingly would be consistent with an adopted, qualified GHG reduction strategy. Therefore, the proposed project would not generate GHG emissions that would have a significant impact on the environment. Impacts would be less than significant.

Table 19 Project Consistency with the San Leandro CAP

San Leandro CAP Measure	Project Consistency
Building Efficiency (BE)	
BE-1: Electrified retrofits. Incentivize significant building retrofits with fewer or no natural gas appliances to reduce pollution and increase cost savings.	**Not applicable**. The proposed project would include the development of a new light industrial warehouse and would not retrofit existing buildings.
BE-2: Electrified new construction. Commit to developing a reach code limiting natural gas use in new construction, or as directed by the State or regional agencies.	**Consistent**. The City of San Leandro has adopted a reach code limiting natural gas use in new construction, and the project would not include natural gas infrastructure.
Residential Energy Efficiency (RF)	
RF-1: Increase education and outreach for existing energy efficiency financing mechanisms, including theProgram for All-Inclusive Elder Care (PACE) programs and utility programs. Create new financing programs, such as a revolving loan program. **RF-2:** Prioritize City-funded energy retrofit programsin majority people of color census tracts or high energy cost burdened households. **RF-3:** Homeowner energy retrofits. Continue to promote energy efficiency programs and incentivesavailable to residential property owners. **RF-4:** Work with landlords and tenants' groups to increase energy efficiency and decrease energy costsin rental homes, including multi-family properties. Mitigate displacement risk by strengthening tenant protections, including relocation assistance and rightof return for tenants temporarily displaced by housing retrofits. Utilize methods such as the green lease to address the split incentive issue and preventtenants paying for property improvements.	**Not applicable.** The proposed project would include the development of a new light industrial warehouseand would not include residential uses.
Renewable Energy (RE)	
RE-1: East Bay Community Energy participation Encourage San Leandro households and businesses toswitch from PG&E electricity supplies to East Bay Community Energy, and commit to defaulting to Renewable 100 tier for 100 percent renewable energy.	**Consistent**. The project site is located in the East Bay Community Energy service area and tenants would be able to register for this electricity provider.
RE-2: Residential owner-occupied renewable energyPromote greater adoption of renewable energy generation and energy storage systems on owner- occupied new and existing homes. Leverage existing solar financing, tax, and rebate opportunities, and consider new financial incentives as needed.	**Not Applicable**. The proposed project would include the development of a new light industrial warehouse and would not include residential uses.
RE-3: Prioritize increasing and installing renewable energy generation systems and energy storage systems on rental homes, multi-family buildings, and affordable housing.	**Not Applicable**. The proposed project would include the development of a new light industrial warehouse and would not include residential uses.
RE-4: Increase renewable energy generation and energy storage capacity at nonresidential properties.Encourage the use of non-fossil fuel backup generation systems as much as possible.	**Consistent.** The proposed project would be required to comply with SLMC Chapter 7-5, Article 6 Green Building Code, which would require all new development to be consistent with Title 24, including the provision for solar-ready rooftop infrastructure.

San Leandro CAP Measure	Project Consistency
Reducing Auto Dependency (AD)	
AD-1: Traffic calming. Continue to provide the Neighborhood Traffic Calming Program and related efforts to reduce travel speeds and cut through traffic in residential areas.	**Consistent**. The proposed project would not include a roadway that could be used to cut through residential neighborhoods and would facilitate travel to the proposed project driveways.
AD-2: Transit-oriented development. Continue to concentrate multi-family development and pedestrian-oriented mixed-use development within existing [Transit Oriented Development] TOD areas and along major transit corridors.	**Not Applicable**. The proposed project is not a multi-family development or pedestrian-oriented mixed-use development.
AD-3: Infill development. Focus new housing development on underutilized or vacant infill sites on flatter lands and continue to discourage new development in hillside areas.	**Not Applicable**. The proposed project include the development of a new light industrial warehouse and would not include residential uses.
AD-4: Evaluate parking standards. Evaluate parking standards and continue to support shared parking and other efforts to ensure the availability of necessary parking while reducing vehicle miles traveled.	**Consistent**. The proposed project would provide parking consistent with development standards contained in the SLMC.
Active and Alternative Transportation (AT)	
AT-1: Transportation Demand Management (TDM). Require local employers above a certain number of employees to develop programs that promote ride sharing, flextime, telecommuting, and other means to reduce commute trips and congestion, and target 10 percent mode shift.	**Consistent**. Although the number of employees that would be employed by the proposed project is unknown at the time of preparation of this report, the proposed project would comply with any City TDM programs should they apply. In addition, the CAP does not provide a numerical number of employees where a TDM program would be applicable.
AT-2: Bicycle infrastructure. Expand San Leandro's bicycle network and supportive bicycle infrastructure, including funding buildout of the City's bicycle network as identified in the current Bicycle and Pedestrian Master Plan, to meet commute trip, non-commute trip, and recreational needs.	**Consistent**. The proposed project would not inhibit the expansion of the City's bicycle network, because it would be consistent with existing Building Codes and would not prevent the installation of bicycle lanes or infrastructure adjacent to the project site. Additionally, the project would include 14 bicycle parking spaces.
AT-3: Active transportation and micro-mobility. Commit to implementing bikeshare, scooters, and micro-mobility options, and accompanying creative payment options, such as accepting cash deposits foraccess. **AT-4:** Walkability. Improve walkability of all streets and paths in San Leandro, including removing barriersto walking and adding places of rest and shade. Prioritize new infrastructure and modernized curb ramps in majority people of color census tracts andnear assisted living facilities and senior centers. **AT-5:** Public transit. Work collaboratively with AC Transit and BART for abundant, affordable, and accessible public transit through improved servicefrequency, coverage, and quality throughout San Leandro. Support efforts to increase schedule integration. **AT-6:** BART shuttles. Continue LINK and FLEX shuttlebus services connecting BART stations and other major activity centers, including efforts to improve shuttle efficiency and comprehensiveness.	**Not Applicable.** These CAP measures would be the responsibility of the City of San Leandro to implement, rather than individual development projects.

San Leandro CAP Measure	Project Consistency
AT-7: Car sharing. Expand car sharing through additional incentives, location of car sharing sites,and education and outreach. **AT-8:** Autonomous vehicles. Explore opportunities to effectively reduce GHG emissions associated with autonomous vehicles.	
Transportation Electrification and Low-Carbon Fuels (TE)	
TE-1: Electric vehicle adoption. Conduct education and outreach to inform members of the public aboutthe availability of EVs, and the economic incentives available to encourage EV adoption. **TE-2:** Increase the availability of publicly accessible EV charging stations at multi-family residential buildings,retail centers, offices, and public facilities.	**Consistent.** The proposed project includes the development of a new warehouse that would be subject to Title 24 requirements mandating EV charging infrastructure.
TE-3: Alternative commercial fuels. Support increasesin community-wide uses of biomethane, biofuels from sustainable sources, and other emerging clean fuel technologies. **TE-4:** Municipal fleet fuel reduction. Further reducefossil fuel use in municipal fleet operations. **TE-5:** EV financing. Support funding mechanisms (e.g., revolving loan fund, grants, public bank finance) to enable low-income truck owner-operators to upgradeto EVs without undue debt burden. **TE-6:** Electric taxis and TNCs. Promote fuel efficiencyand alternative fuels for taxis and Transportation Network Companies (TNCs), including a funding mechanism to support ride sharing drivers to move from fossil-fueled cars to EVs (e.g., require Lyft/Uberto pay for upgrade).	**Not Applicable.** These CAP measures would be the responsibility of the City of San Leandro to implement rather than individual development projects.
Waste Management (WM)	
WM-1: Increased curbside recycling. Increase participation in curbside recycling programs, includingefforts to reduce material contamination and improvements to waste educational programs.	**Consistent**. The proposed project would be required to comply with the City's construction debris and waste recycling ordinance. The proposed project would be provided waste removal services by Oro Loma Sanitary District,which provides recycling services for residential uses.
WM-2: Curbside composting. Expand participation in composting programs, including partnerships with community organizations such as StopWaste and a mandatory curbside composting program for all businesses.	**Consistent**. The Oro Loma Sanitary District would provide Green Waste bins for the proposed project's waste disposal and the proposed project would participate in mandatory composting practices for businesses.
WM-3: Recycling expansion. Continue to promoteprograms for recycling electronic waste and othermaterials that are not accepted in curbside bins.	**Not Applicable**. This CAP measure would be the responsibility of the City of San Leandro to implement, rather than individual development projects.
Waste Reduction and Reuse (WR)	
WR-1: Waste minimization. Explore emerging opportunities for waste minimization, includingmaker spaces, material reuse, and tool-lending libraries.	**Not Applicable**. This CAP measure would be the responsibility of the City of San Leandro to implement, rather than individual development projects.
WR-2: Construction and Demolition waste. Explore opportunities to exceed State requirements for construction and demolition materials by encouraging deconstruction and material reuse.	**Consistent**. The proposed project construction contractor would be required to comply with SLMC Section 3-7 related to constructionwaste and debris recycling.

San Leandro CAP Measure	Project Consistency
WR-3: Commercial food waste reduction. Work with restaurants and other food-processing businesses toreduce food waste.	**Not Applicable.** The proposed project would not include restaurant or food processing land uses.
WR-4: Industrial waste reduction. Work with business leaders and organizations to reduce industrial waste, including packaging materials.	**Consistent.** The City would initiate coordination with the proposed project owners to identify industrial waste reduction goals or programs that would apply and would seek to develop a plan to reduce industrial waste.
WR-5: Styrofoam and single-use plastics reduction.Continue to enforce bans on Styrofoam for food- related businesses and explore opportunities to reduce single-use plastic items. **WR-6:** Local compost. Support programs for locally-produced compost, including programs run by localand regional partners.	**Not Applicable**. This CAP measure would be the responsibility of the City of San Leandro to implement, rather than individual development projects.
Water Efficiency (WE)	
WE-1: Reclaimed water. Expand San Leandro'sreclaimed water system. **WE-2:** Greywater retrofits. Support installation of greywater recycling systems and other systems thatcapture runoff for domestic use and landscaping. **WE-3**: Water-efficient retrofits. Promote water efficiency in existing homes and businesses.	**Not Applicable**. This CAP measure would be the responsibility of the City of San Leandro to implement, rather than individual development projects. **Not Applicable**. This CAP measure would be the responsibility of the City of San Leandro to implement, rather than individual development projects. **Not Applicable**.
WE-4: New Greywater Installations. Continue to require water conservation and green infrastructurestrategies as a condition of approval for major developments.	**Consistent.** The proposed project would include drought landscaping consistent with Title 24 and Cityof San Leandro requirements that would be appropriate for the local climate and contribute to conserving outdoor water use.
Community Consumption (CC)	
CC-1: Environmentally Preferred Purchasing**.** Continue to promote and enforce Environmentally Preferred Purchasing policies for City operations andencourage community businesses to adopt similar policies. **CC-2:** Local Goods and Services. Continue Keep It Local SL campaign efforts and encourage businessesproviding a variety of goods and services to locate inSan Leandro. **CC-3:** Low Carbon Building Materials**.** Work with local, regional, and State partners to expand the awareness of, availability, and cost-effectiveness oflow carbon or carbon-free construction materials.	**Not Applicable.** These CAP measures would be the responsibility of the City of San Leandro to implement, rather than not individual development projects.
CC-4: Carbon Sequestration. Promote increasing soilcarbon and planting high carbon sequestering, climate appropriate species in landscaping projects.	**Consistent.** The proposed project would include landscaping consistent with City of San Leandro requirements that would be appropriate for the local climate and contribute to carbon sequestration on- site.

San Leandro CAP Measure	Project Consistency
Equity and Just Transition (EJ)	
EJ-1: Green Job Training. Maximize opportunities forgreen jobs by supporting workforce training and other economic development activities in a manner that supports labor unions and improved equity. **EJ-2: Workforce Equity.** Prioritize formerly incarcerated individuals, individuals with barriers to employment for green workforce development programs through 'ban the box' and other procurement standards. Perform culturally-sensitivetargeted outreach for these programs. **EJ-3: Just Transition.** Work to replace environmentally harmful industries with green jobs in a manner that benefits the health and well-being of workers from these industries.	**Not Applicable.** These CAP measures would be the responsibility of the City of San Leandro to implement, rather than individual development projects.

Source: City of San Leandro 2021

LESS-THAN-SIGNIFICANT IMPACT

9 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 0.25 mile of an existing or proposed school?	□	□	■	□
d. Be located on a site that is included on a list of hazardous material 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 in 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?	□	□	□	■

Hazards and Hazardous Materials Setting

A Phase I Environmental Site Assessment (ESA) was prepared for the project site by Roux Associates, Inc. (Roux) in November 2021. Rincon Consultants, Inc. peer reviewed this ESA in December 2022. As part of the Phase I ESA, Environmental Data Resources, Inc. (EDR) was contracted to provide a database search of public lists of sites that generate, store, treat, or dispose of hazardous materials or sites for which release or incident has occurred for the project site and surrounding area. Federal, state, and country lists were reviewed as part of the research effort. The Phase I ESA and peer review memorandum are presented in Appendix H.

Methodology

Roux performed two site assessments and a records review to identify Recognized Environmental Conditions (RECs). American Society for Testing Materials(ASTM) International is an international standards organization that develops and publishes voluntary consensus technical standards for a wide range of materials, products, systems, and services (ASTM 2023). ASTM International defines RECs as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property due to a release to the environment, under conditions indicative of a release to the environment, or under conditions that pose a material threat of a future release to the environment. In addition, Roux evaluated the site for Controlled Recognized Environmental Conditions (cRECs) and Historical Recognized Environmental Conditions (hRECs). cRECs are RECs that have been addressed to the satisfaction of the applicable regulatory authority with hazardous substances allowed to remain in place subject to the implementation of required controls. hRECs are 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 without subjecting the property to any required controls (Appendix H).

Roux contracted with EDR to review databases maintained by local, state, and federal government agencies, and other records available from commercial and online sources. Roux also contacted government agencies, including the United States Environmental Protection Agency, the San Francisco Bay RWQCB, BAAQMD, the Alameda County Public Works Agency, the Alameda County Department of Environmental Health, and the City of San Leandro, for information regarding potential environmental conditions at the site.

No known or suspected RECs or cRECs were identified in connection with the current and historical operations at the project site (Appendix H).

Based on information obtained from the site assessments and records review, the following hRECs are associated with current and historical operations at the project site or adjacent properties (Appendix H):

- **hREC 1: Custom Ironwork Facility.** The building located at 14143-A Washington Avenue within the northeastern portion of the project site was a custom ironworks shop for over 20 years. Miscellaneous paints, cleaners, and lubricating/cutting oils in consumer-sized containers were observed throughout the structure. Given the long-term operation of the ironworks shop and the relatively poor housekeeping of materials within the structure, this facility was determined to pose a potential concern in relation to the project site. Roux completed subsurface investigations, which did not indicate subsurface contamination resulting from the ironworks shop; therefore, this item is considered an hREC.
- **hREC 2: Oil/Water Separator.** Roux observed a belowground oil/water separator located south of the car wash structure in the central portion of the project site. Wastewater from the former

wash station in this structure likely entered a floor drain in the structure and was discharged into the separator prior to being discharged into the municipal sewer system. Waste fluids such as motor vehicle fuels, new and used engine oil, hydraulic oil, coolant, battery acid, and other vehicle fluids may have been discharged into the separator. Subsurface investigations completed by Roux did not indicate subsurface contamination resulting from this former project site use; therefore, this item is considered a hREC.

- **hREC 3: Former Underground Storage Tank (UST) without Regulatory Closure.** Of the four USTs known to have existed on the project site, three received regulatory closure. A 550-gallon waste oil tank located along the southern boundary of the project site was removed under the oversight of the San Leandro Fire Department; subsurface investigations performed by Roux did not indicate subsurface contamination resulting from this UST; therefore, this item is considered an hREC.
- **hREC 4: Former USTs with Regulatory Closure.** Three USTs, including two 1,000-gallon diesel tanks and one 5,000-gallon gasoline tank were removed from the project site in 1991 and 1992. Records indicate that these USTs were removed under the oversight of the San Leandro Fire Department and received regulatory closure from the San Francisco Bay RWQCB in 1997. Subsurface investigations performed by Roux did not indicate subsurface contamination resulting from these USTs; therefore, these items are considered hRECs.

Regulatory Setting

Department of Toxic Substances Control

As a department of CalEPA, the Department of Toxic Substances Control (DTSC) regulates hazardous waste, cleans up existing contamination, and looks for ways to reduce the hazardous waste produced in California. DTSC regulates hazardous waste in California primarily under the authority of the Resource Conservation and Recovery Act (RCRA) and the California Health and Safety Code.

DTSC also administers the California Hazardous Waste Control Law (HWCL) to regulate hazardous wastes. While the HWCL is generally more stringent than RCRA, until the USEPA approves the California program, both state and federal laws apply in California. The HWCL lists 791 chemicals and approximately 300 common materials that may be hazardous; establishes criteria for identifying, packaging, and labeling hazardous wastes; prescribes management controls; establishes permit requirements for treatment, storage, disposal, and transportation; and identifies some wastes that cannot be disposed of in landfills.

Government Code Section 65962.5 requires the DTSC, the State Department of Health Services, SWRCB, and the California Department of Resources Recycling and Recovery (CalRecycle) compile and annually update lists of hazardous waste sites and land designated as hazardous waste sites throughout the state. The Secretary for Environmental Protection consolidates the information submitted by these agencies and distributes it to each city and county where sites on the lists are located. Before the lead agency accepts an application for any development project as complete, the applicant must consult these lists to determine if the site at issue is included.

If any soil is excavated from a site containing hazardous materials, it is considered a hazardous waste if it exceeds specific criteria in Title 22 of the CCR. Remediation of hazardous wastes found at a site may be required if excavation of these materials is performed, or if certain other soil disturbing activities would occur. Even if soil or groundwater at a contaminated site does not have the characteristics required to be defined as hazardous waste, remediation of the site may be

required by regulatory agencies subject to jurisdictional authority. Cleanup requirements are determined on a case-by-case basis by the agency taking jurisdiction.

Regional Water Quality Control Board

The Regional Water Quality Control Board (RWQCB) regulates discharges and releases to surface and groundwater in the project area. The RWQCB generally oversees cases involving groundwater contamination. The County of Alameda Department of Environmental Health handles most leaking underground storage tank cases, so the RWQCB may oversee cases involving other groundwater contaminants, i.e., Spills, Leaks, Incidents, and Clean-up cases. In the case of spills at a project site, the responsible party would notify the County of Alameda, RWQCB, or DTSC and a lead would be determined.

RWQCB has established guidelines used to evaluate the potential risk associated with chemicals found in soil or groundwater where a release of hazardous materials has occurred called Environmental Screening Levels (ESLs). ESLs were developed to expedite the identification and evaluation of potential environmental concerns at contaminated sites. ESLs address soil, groundwater, soil gas, and indoor air and cover a range of concerns (e.g., impacts to drinking water, aquatic habitat, and vapor intrusion).

San Leandro Environmental Services Section

The City of San Leandro Environmental Services Section is designated as the City's Certified Unified Program Agency (CUPA), which is overseen by the California Environmental Protection Agency and coordinates the regulation of hazardous materials and hazardous wastes in the City. CUPA ensures the consistent application of statewide standards during administrative, permitting, inspection, and enforcement activities associated with hazardous materials and hazardous wastes. If a business operated at the project site would use and store hazardous materials and generate hazardous wastes, CUPA would require the electronic submittal of chemical and facility information, a Hazardous Materials Business Plan, and hazardous waste generator permits to the California Environmental Reporting System online database. If operations at the project site would include the treatment, storage, and/or disposal of hazardous waste, the City Environmental Services Section would regulate these activities under a tiered permitting system.

CUPA, through the Hazardous Materials Office, regulates USTs containing hazardous materials, including installation, operation and maintenance, temporary closure, and removal and disposal of USTs. Additionally, CUPA holds the responsibility and authority to implement the Aboveground Petroleum Storage Act, which regulates aboveground petroleum storage tanks through administrative requirements, permitting, inspections, and enforcement. Any aboveground or underground storage tanks present at the project site would be managed by the City Environmental Services Section.

The Hazardous Materials Office administers the California Accidental Release Prevention (CalARP) Program, which aims to reduce the likelihood and impact of accidental releases of regulated toxic and flammable substances through administrative and operational procedures, and facility inspections. If the facility located on the project site would be regulated under the CalARP Program, the facility would file a written Risk Management Plan with the City Environmental Services Section.

San Leandro 2035 General Plan

The following Environmental Hazards Element policies of the San Leandro 2035 General Plan reduce potential hazards related to hazardous materials.

ENVIRONMENTAL HAZARDS ELEMENT

Goal EH-5 Protect local residents and workers from the risks associated with hazardous materials.

Policy EH-5.1 **Regulatory Compliance.** Work with the appropriate county, regional, state, and federal agencies to develop and implement programs for hazardous waste reduction, hazardous material facility siting, hazardous waste handling and disposal, public education, and regulatory compliance.

Policy EH-5.2 **Clean-Up of Contaminated Sites.** Ensure that the necessary steps are taken to clean up residual hazardous wastes on any contaminated sites proposed for redevelopment or reuse. Require soil evaluations as needed to ensure that risks are assessed and appropriate remediation is provided.

Policy EH-5.4 **Separation from Sensitive Uses.** Provide adequate and safe separation between areas where hazardous materials are present and sensitive uses such as schools, residences, and public facilities. Zoning and other development regulations should include performance standards to avoid safety hazards and achieve compatibility between uses.

Impact Analysis

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

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

Construction

Project construction may include the temporary transport, storage, use, or disposal of potentially hazardous materials including fuels, lubricating fluids, cleaners, solvents, or contaminated soils. If spilled, these substances could pose a risk to the environment and to human health. However, the transport, storage, use, or disposal of hazardous materials is subject to various federal, state, and local regulations designed to reduce risks associated with hazardous materials, including potential risks associated with upset or accident conditions. Hazardous materials would be required to be transported under U.S. Department of Transportation (USDOT) regulations (USDOT Hazardous Materials Transport Act, 49 Code of Federal Regulations), which stipulate the types of containers, labeling, and other restrictions to be used in the movement of such material on interstate highways. In addition, the use, storage, and disposal of hazardous materials are regulated through the RCRA. DTSC is responsible for implementing the RCRA program, as well as California's own hazardous waste laws. DTSC regulates hazardous waste, cleans up existing contamination, and looks for ways to control and reduce the hazardous waste produced in California. It does this primarily under the authority of RCRA and in accordance with the HWCL (California H&SC Division 20, Chapter 6.5) and

the Hazardous Waste Control Regulations (Title 22, California Code of Regulations, Divisions 4 and 4.5). DTSC also oversees permitting, inspection, compliance, and corrective action programs to ensure that hazardous waste managers follow federal and state requirements and other laws that affect hazardous waste specific to handling, storage, transportation, disposal, treatment, reduction, cleanup, and emergency planning. Compliance with existing regulations would reduce the risk of potential release of hazardous materials during construction. Impacts would be less than significant.

Operation

Commercial warehouse structures typically do not use or store large quantities of hazardous materials other than those typically used for office cleaning, maintenance, and landscaping. If the operation of the proposed project would require handling of hazardous materials, the use, storage, and disposal of hazardous materials would be regulated through the RCRA which is implemented by DTSC. Transport of hazardous materials, during the operation of the proposed project, would be required to be transported under U.S. Department of Transportation (USDOT) regulations (USDOT Hazardous Materials Transport Act, 49 Code of Federal Regulations), which stipulate the types of containers, labeling, and other restrictions to be used in the movement of such material on interstate highways. In the case of spills at a project site, the responsible party would notify the County of Alameda, RWQCB, or DTSC and a lead would be determined. Therefore, project operation would not involve the use, storage, transportation, or disposal of substantial quantities of hazardous materials and would not result in the release of such materials into the environment. Impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

c. Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school?

There are no schools within 0.25 mile of the project site, the closest school is James Monroe Elementary, approximately 0.5 miles southwest of the site, and project operation would not involve the use or storage of hazardous materials. Though potentially hazardous materials, substances, and waste such as fuels, lubricants, solvents, and oils could be used during project construction, the transport, use and storage of hazardous materials would be required to be conducted in accordance with all applicable State and federal laws, such as the Hazardous Materials Transportation Act, RCRA, the California Hazardous Material Management Act, and the CCR, Title 22. The project would have a less than significant impact on hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school.

LESS-THAN-SIGNIFICANT IMPACT

d. Would the project be located on a site that is included on a list of hazardous material 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?

In addition to the database review conducted for the Phase I ESA, the following resources were reviewed to determine if hazardous materials may be present at the project site.

- **Department of Toxic Substances Control (DTSC)**
  - Online Cortese List of Hazardous Waste and Substances Sites (DTSC 2022)

- **California State Water Resources Control Board (SWRCB)**
  - Online GeoTracker database search for leaking underground storage tanks (LUST) and other cleanup sites (SWRCB 2022a)
  - Polyfluoroalkyl substances (PFAS) Investigation online Public Map Viewer (SWRCB 2022b)
- **California Department of Conservation Geologic Energy Management Division (CalGEM)**
  - Online Mapping System (CalGEM 2022)
- **U.S. Department of Transportation (USDOT)**
  - National Pipeline Mapping System (NPMS) online Public Map Viewer (USDOT 2022)
- **California Department of Resources Recycling and Recovery (CalRecycle)**
  - Solid Waste Information System (SWIS) (CalRecycle 2019)

DTSC Database Review

A review of the online Cortese List of Hazardous Waste and Substances Sites determined that the project site is not listed as a hazardous waste and substances site. One state response site is within 1,000 feet of the project site; however, the site enacts an annual monitoring program and was certified by DTSC as of October 2006.

SWRCB GeoTracker Database Review

A review of the online GeoTracker database determined that the project site contains a closed Leaking Underground Storage Tank cleanup site, which was closed in 1997. The project site is not listed as a hazardous waste and substances site. There are eight sites listed in the GeoTracker Database within 1,000 feet of the project site; five sites were determined to be completed by SWRCB and their cases were closed, and two are inactive. The remaining site, approximately 600 feet north of the project site, has a cleanup status of "open – site assessment" as of December 2016 (SWRCB 2022a).

PFAS Database Review

Beginning in 2019, the California SWRCB sent assessment requirements to property owners of sites that may be potential sources of PFAS. These sites currently include select landfills, airports, chrome plating facilities, publicly owned treatment works facilities, Department of Defense (DoD) sites, and bulk fuel storage terminals and refineries. According to the SWRCB, "PFAS are a large group of human-made substances that do not occur naturally in the environment and are resistant to heat, water, and oil" (SWRCB 2021). A review conducted on October 24, 2022 of the California Statewide PFAS Investigation online Public Map Viewer indicates that there are no current chrome plating, airport, landfill, publicly owned treatment works, DoD, or bulk fuel storage terminal or refinery PFAS orders at any facilities listed as located on the site or within one-half mile of the project site (SWRCB 2022b).

Well Finder Database Review

A review of the CalGEM Online Mapping System indicates that no oil wells are located on the project site, adjacent properties, or within 0.25 mile of the project site (CalGEM 2022).

Pipeline Database Review

The NPMS online Public Map Viewer indicates that one Pacific Gas and Electric Company-operated natural gas pipeline with an active status is located along Washington Avenue, which is adjacent to the north of the project site. The NPMS Viewer does not depict an accident or incident along the pipeline (USDOT 2022).

Landfill Database Review

The SWIS online database indicates that no landfills are located within one-half mile of the project site (CalRecycle 2019).

Review Summary

The project site is not listed as a DTSC Cortese hazardous material site compiled pursuant to Government Code Section 65962.5. Based on the database research conducted, the project site is not within one-half mile of a facility that could be a potential source of PFAS or a well containing PFOA or PFOS. Additionally, there are no oil wells, landfills, or pipelines with reported instances within 0.25 mile of the site.

While the Leaking Underground Storage Tank cleanup site within the project site is closed, it is possible that residual fuels and contaminants may be present in soils, which would be disturbed during project grading and construction. Release of soil vapors or contaminants would potentially create a hazard to the public or the environment. Mitigation Measure HAZ-1 would be required.

Mitigation Measure

HAZ-1 Preparation of a Soil Management Plan

The project applicant shall retain a qualified environmental consultant (Professional Geologist [PG] or Professional Engineer [PE]), to prepare a Soil Management Plan (SMP) prior to construction. The SMP or equivalent document shall be prepared to address onsite handling and management of impacted soils or other impacted wastes, and to reduce hazards to construction workers and offsite receptors during construction. The plans shall establish remedial measures and/or soil management practices to ensure construction worker safety, the health of future workers and visitors, and the off-site migration of contaminants from the site. These measures and practices may include, but are not limited to:

- Stockpile management including stormwater pollution prevention and the installation of BMPs
- Proper disposal procedures of contaminated materials
- Monitoring and reporting
- A health and safety plan for contractors working at the site that addresses the safety and health hazards of each phase of site construction activities with the requirements and procedures for employee protection

The City shall review and approve the development site plans for prior to ground disturbing or construction activities. Recommendations listed within the SMP shall be implemented as indicated prior to (preparation of the SMP) and during (adherence to the SMP) construction of the proposed project.

Mitigation Measure HAZ-1 would ensure that the disturbance of hazardous materials during ground-disturbing activities would result in a less than significant impact to workers, the public, and the environment. Impacts related to the release of hazardous materials into the environment would be less than significant with mitigation incorporated.

LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED

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?

The project site is approximately 3.8 miles east of Oakland International Airport and 3.3 miles north of the Hayward Executive Airport. The project site is not within the noise or safety compatibility zones of Oakland International Airport or Hayward Executive Airport (Alameda County Community Development Agency 2010; Alameda County Airport Land Use Commission 2010). Therefore, the project would not result in a safety hazard or excessive noise for people working in the project area. Impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

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

Project construction would not require the closure of nearby roads and would not result in the need for detours. Construction activities would be limited to the project site and equipment and vehicles would be stationed within the site. The proposed project would not obstruct existing roadways or require the construction of new roadways or access points. Therefore, the proposed project would not block emergency response or evacuation routes or interfere with adopted emergency response and emergency evacuation plans. No impact would occur.

NO IMPACT

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

The project site is in a developed, urbanized area surrounded by commercial development and roadways. No wildlands or densely vegetated areas are located nearby that would represent a significant fire hazard. The project does not fall within a High Fire Hazard Severity Zone or Very High Fire Hazard Severity Zone for wildland fires; the nearest Fire Hazard Severity Zone is 1.2 miles west of the project site (CALFIRE 2006). As discussed further in Section 20, *Wildfire*, the project would not expose people or structures to significant hazards related to wildland fires and there would be no impact.

NO IMPACT

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10 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 sources of polluted runoff; or	□	□	■	□
(iv) Impede or redirect flood flows?	□	□	■	□
d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	□	□	■	□
e. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	□	□	■	□

Setting

The project site is approximately 3.45 acres and generally flat, with an elevation of 40 feet above sea level (Google Earth 2022). There is an existing storm drain system on Washington Avenue. The site is approximately 2.5 miles east of the San Francisco Bay, 2.2 miles northwest of San Lorenzo Creek, and 1.5 miles south of San Leandro Creek. Both creeks flow to the west and terminate in the San Francisco Bay. The City of San Leandro receives approximately 21 inches of rain annually, with rainfall concentrated in the winter months (National Oceanic and Atmospheric Administration 2022).

Regulatory Setting

Clean Water Act

Congress enacted the CWA, formerly the Federal Water Pollution Control Act of 1972, with the intent of restoring and maintaining the chemical, physical, and biological integrity of the waters of the U.S. The CWA requires states to set standards to protect, maintain, and restore water quality through the regulation of point source and non-point source discharges to surface water. The National Pollutant Discharge Elimination System (NPDES) permit process regulates those discharges (CWA Section 402). NPDES permitting authority is administered by the SWRCB and its nine RWQCBs. The project site is in a watershed administered by the San Francisco Bay RWQCB (San Francisco Bay RWQCB 2022).

California Porter Cologne Water Quality Control Act

The Porter Cologne Water Quality Control Act of 1967 requires the SWRCB and the nine RWQCBs to adopt water quality criteria to protect State waters. These criteria include the identification of beneficial uses, narrative and numerical water quality standards, and implementation procedures. The criteria for state waters in the region are contained in the *Water Quality Objectives* Chapter of the Basin Plan for the San Francisco Bay RWQCB (San Francisco Bay RWQCB 2017). The Water Quality Control Plan, or Basin Plan, protects designated beneficial uses of State waters through the issuance of Waste Discharge Requirements and through the development of total maximum daily loads. Anyone proposing to discharge waste that could affect the quality of the waters of the State must make a report of the waste discharge to the RWQCB or SWRCB, as appropriate, in compliance with Porter-Cologne.

Alameda County Clean Water Program

The City of San Leandro is a member agency of the Alameda County Clean Water Program (ACCWP), which was established in response to federal stormwater NPDES regulations. Pursuant to the ACCWP Stormwater C.3 Technical Guidance (ACCWP 2017), projects that create or replace 10,000 square feet or more of impervious surface must comply with Provision C.3, which requires incorporation of appropriate source control, site design, and stormwater treatment measures in new development and redevelopment projects to address stormwater runoff pollutant discharges and prevent increases in runoff flows. The proposed project would be subject to this provision and would be required to implement appropriate measures.

Municipal Regional Permit Provision C.3

The San Francisco Bay RWQCB re-issued the Municipal Regional Stormwater NPDES Permit (MRP) in 2015 to regulate stormwater discharges from municipalities and local agencies (co-permittees) in

Alameda, Contra Costa, San Mateo, and Santa Clara counties. Under Provision C.3 of the MRP, new and redevelopment projects that create or replace 10,000 square feet or more of impervious surface area are required to implement site design, source control, and Low Impact Development (LID)-based stormwater treatment controls to treat post-construction stormwater runoff. LID-based treatment controls are intended to maintain or restore the site's natural hydrologic functions, maximizing opportunities for infiltration and evapotranspiration, and using stormwater as a resource (e.g., rainwater harvesting for non-potable uses). The MRP also requires that stormwater treatment measures are properly installed, operated, and maintained. In addition, the City would require a Stormwater Treatment Measures and Hydromodifications Management Controls Maintenance Agreement.

In addition to water quality controls, the MRP requires new development and redevelopment projects that create or replace one acre or more of impervious surface to manage development-related increases in peak runoff flow, volume, and duration, where such hydromodification is likely to cause increased erosion, silt pollutant generation, or other impacts to local rivers, streams, and creeks. Projects may be deemed exempt from these requirements if they do not meet the minimized size threshold, drain into tidally influenced areas or directly into the Bay, or drain into hardened channels, or if they are infill projects in subwatersheds or catchment areas that are greater than or equal to 65 percent impervious.

The project would be required to comply with all requirements in the MRP. This permit was reissued the Regional Water Quality Control Board in May 2022.

City of San Leandro Municipal Code

Chapter 3-15 of SLMC regulates discharges into the City's stormwater system. Chapter 3-15 requires implementation of stormwater and erosion best management practices and compliance with the CWA and NPDES permits to eliminate non-stormwater discharges to the municipal separate storm sewer. Further, Chapter 7-12 of SLMC requires development projects to submit erosion and sedimentation control plans and drainage plans to the City for approval prior to project construction.

City of San Leandro 2035 General Plan

The following policies are applicable to the proposed project:

OSC-7.2 **Water Conservation.** Promote the efficient use of existing water supplies through a variety of water conservation measures, including the use of recycled water for landscaping.

OSC-7.3 **Drought Tolerant Landscaping.** Encourage the use of native vegetation and Bay-friendly landscaping and enforce the State Department of Water Resources Model Water Efficient Landscape Ordinance.

Impact Analysis

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

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

Construction

Project construction has the potential to impact water quality through erosion and through debris carried in runoff. Construction would involve heavy equipment that could result in an increase in fuel, oil, and lubricants in stormwater runoff due to leaks or accidental releases. To minimize these impacts, the project would be required to comply with SLMC Chapter 7-12, which details requirements for erosion and sediment control plans, and with SLMC Chapter 3-15, which regulates discharge of materials into curbside gutters, storm sewers, and storm drains. The project would be required to implement BMPs for drainage and erosion control during construction and meet requirements for stormwater and sewer discharge.

In addition, as the project would disturb more than one acre, the project applicant would be required to obtain coverage under the statewide NPDES General Permit for Discharges of Storm Water associated with Construction Activity, Construction General Permit Order 2009-0009 DWQ (Construction General Permit), administered by the State Water Resources Control Board pursuant to Section 402 of the Clean Water Act. Coverage under the NPDES Permit would require implementation of a Stormwater Pollution Prevention Program and various site-specific BMPs to reduce erosion and loss of topsoil during project construction. Compliance with the NPDES permit and BMPs during construction such as straw wattles, silt fencing, concrete washouts, and inlet protection during construction would reduce impacts resulting from loss of topsoil. Construction would require water for dust suppression, but water use would be temporary and would cease upon the completion of construction. The project would not extract groundwater or directly interfere with the groundwater table through construction activities on the site, as ground disturbance would not occur below the water table. Compliance with state and local requirements would reduce impacts to surface and ground water quality to less than significant levels.

Operation

The City of San Leandro overlies the Santa Clara Valley (East Bay Plain) Groundwater Subbasin, which is bounded by San Pablo Bay to the north, the Diablo Range to the east, the San Francisco Bay to the west, and a groundwater divide near the City of Hayward to the south (California's Groundwater 2004). Currently, the project site is almost completely developed with hardscaped surfaces; the project would reduce the amount of impervious surfaces on the site through the inclusion of approximately 18,000 square feet of landscaped areas. These landscaped areas, consisting of planters along the eastern, western, and southern boundaries of the project site, would be bioretention treatment areas that would filter runoff and facilitate groundwater recharge. Remaining water that would not recharge into the groundwater would be released into the City's existing storm drain system via the storm drain on Washington Avenue, which outfalls into the San Francisco Bay. The project would be required to comply with SLMC Chapter 3-15, which requires development to implement permanent stormwater pollution prevention measures that are consistent with the City's NPDES permit. The project applicant would be required to submit a

stormwater management plan that would be subject to City approval prior to issuance of a grading permit.. The project would also comply with the City's C.3 Stormwater Guidelines, which outlines acceptable stormwater controls under the NPDES permit issued by RWQCB. Therefore, project operation would not substantially interfere with groundwater recharge, impact groundwater quality, or impede sustainable groundwater management of the Santa Clara Valley (East Bay Plain) Groundwater Subbasin.

The East Bay Municipal Utility District (EBMUD) would supply water to the project site. Approximately 90 percent of the EBMUD water supply originates from the melting snowpack of the Sierra Nevada. The principal water source is the Mokelumne River watershed, a 575-square mile area located in Alpine, Amador, and Calaveras Counties. Water is stored in reservoirs in the Sierra foothills and is transported by aqueduct to filter plants and reservoirs in the East Bay Hills. The other 10 percent of the EBMUD's water comes from runoff on protected East Bay Area watershed lands. EBMUD also has a contract for water supply intake from the Central Valley Project (CVP) on the Sacramento River. EBMUD relies on CVP deliveries during dry and critically dry periods (EBMUD 2021). The project would not extract groundwater or directly interfere with the groundwater table through operational activities on the site. Because the project would be served by a water utility with enough supply that does not extract groundwater, and the project would not interfere with groundwater recharge, impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

c.(i) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would result in substantial erosion or siltation on- or off-site?

c.(ii) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?

c.(iii) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner that would create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

c.(iv) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would impede or redirect flood flows?

The nearest creeks to the project site, San Lorenzo Creek and San Leandro Creek, are 2.2 miles and 1.5 miles away from the site, respectively. Existing development between the project site and San Lorenzo and San Leandro Creeks include roadways as well as residential, commercial, and industrial developments. Neither project construction nor operation would alter the course of these creeks or other nearby creeks, streams, or rivers.

The project site was previously developed but is currently vacant and mostly paved. The project is designed to include six drainage management areas that would direct stormwater flows to stormwater drains and landscaped areas. Because the site is currently developed almost entirely with impervious surfaces, the landscaping included in the project would result in a net decrease in

impervious surfaces. The project would result in a net increase of 18,104 square feet of pervious surfaces. Portions of project landscaping, located in the along the western and eastern boundaries of the project site and adjacent to proposed parking areas would serve as bioretention areas to promote filtration and infiltration of stormwater from the project site. Project landscaping would provide 5,622 square feet of stormwater treatment area, which would filter stormwater prior to its discharge into the existing storm drain system or infiltration into groundwater sources. Additionally, the project would be required to incorporate stormwater control measures and NPDES permit requirements to reduce the amount of runoff that would enter the storm drain system compared to existing conditions. Therefore, impacts would be less than significant.

The project would connect to the City's storm drain system, which delivers stormwater and other runoff into local streams and creeks and ultimately to the San Francisco Bay. The project would incorporate stormwater bioretention areas to ensure that post project stormwater runoff would not exceed existing conditions. Therefore, the project would not result in flooding on or off site or substantial erosion or siltation of a creek or river.

LESS-THAN-SIGNIFICANT IMPACT

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

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map, the project site is located in Zone X, which is characterized as an area of minimal flood hazard and having a less than 0.2 percent annual chance to be inundated by flood waters as a result of a storm event (Map #06001C0259G, August 3, 2009) (FEMA 2022). According to the California Governor's Office of Emergency Services (Cal OES) MyHazards online database, the project site is not located in a 100-year floodplain (Cal OES 2015).

The project site is located approximately 2.5 miles east of the San Francisco Bay and is not located in a tsunami or seiche zone, as shown in the Alameda County Tsunami Hazard Areas maps produced by the California Department of Conservation (DOC) (DOC 2021). The nearest body of water that could experience seiche (water level oscillations in an enclosed or partially enclosed body of water) is the San Francisco Bay. No other large bodies of water with the potential to inundate the project site by a seiche are located near the site. Therefore, the proposed project would not result in the risk of release of pollutants due to inundation by a tsunami, seiche, or flooding. Impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

e. Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

EBMUD would serve the project site and this agency maintains an Urban Water Management Plan. EBMUD maintains a wastewater treatment plant in Oakland to ensure that water quality standards and goals are met. As discussed above in Criterion a, the project would not interfere with the ability of the City to maintain water quality standards pursuant to EBMUD's Urban Water Management Plan (UWMP) (EBMUD 2021). EBMUD does not rely on groundwater sources. Therefore, project implementation would not conflict with a sustainable groundwater management plan. Moreover, as outlined above in item (a), the proposed grading would be required to comply with applicable provisions of SLMC 7-12, which ensures protection of watercourses and drainages. Impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

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

Setting

As stated in the *Project Description*, the project site has a General Plan land use designation of Industrial Transition and is zoned as Commercial Community. The Industrial Transition designation corresponds to areas that have historically been industrial but have transitioned or may transition in the future to a more diverse mix of uses, including general commercial activities (City of San Leandro 2016a). Commercial Community zones include but are not limited to business services and office uses. Allowable intensity on the project site is up to 1 FAR, and maximum building height is up to 50 feet with City approval.

Impact Analysis

a. Would the project physically divide an established community?

The project would involve redevelopment of an existing site. No new roads, linear infrastructure, or other development features are proposed that would divide an established community or limit movement, travel, or social interaction between established land uses. Project construction would not physically divide an established community; there would be no impact to established communities.

NO IMPACT

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

San Leandro 2035 General Plan

The City's General Plan contains several land use policies with the purpose of avoiding or mitigating an environmental effect. Table 20 shows applicable General Plan land use policies that aim to avoid or mitigate environmental effects and the project's consistency with those policies.

Table 20 Project Consistency with San Leandro 2035 General Plan Land Use Policies

General Plan Policy	Project Consistency
Policy LU 1.14. Construction Impacts. Ensure that construction activities are regulated and monitored in a manner that minimizes the potential for adverse off-site impacts such as noise, dust, erosion, exposure to hazardous materials, and truck traffic.	**Consistent.** The project would comply with existing applicable regulations that would minimize impacts to noise, dust, erosion, and exposure to hazardous materials. As discussed in Section 13, *Noise,* project construction and operation would not exceed noise limits established by the City and would not result in a significant impact. As discussed in Section 3, *Air Quality,* the project would not exceed applicable thresholds for particulate matter and would not result in a significant impact related to dust or air quality. As discussed in Section 10, *Hydrology and Water Quality,* the project would be required to comply with Section 3-15 and Section 7-12 of the SLMC, which outline construction erosion and stormwater best management practices and require the preparation of an erosion and sedimentation control plan. As concluded therein, the project would not result in substantial erosion or runoff. Finally, as discussed in Section 9, *Hazards and Hazardous Materials,* the project would not result in the release of hazardous materials to the environment and would not expose project occupants to substantial hazards and hazardous materials. As a warehouse development, the project would involve truck traffic. As discussed in Section 17, *Transportation,* traffic generated by the project would be consistent with existing commercial and light industrial uses in the project area, and would not result in significant impacts related to VMT.
Policy LU-10.2. Off-Site Impacts. Consider the setting and context of each site evaluating proposals for development in industrial areas. The potential for impacts on adjacent uses, including the potential for land use conflicts and increased parking demand and truck traffic, should be a key consideration.	**Consistent.** The project would involve development of a warehouse structure, which would be consistent with surrounding land uses including automobile repair shops to the north; commercial, storage, and automobile repair shops to the east; a home supply store to the south; and the City Public Works Department and warehouses to the west. Additionally, the project would involve rezoning the site from Commercial Community to Industrial General, which would facilitate project consistency with City zoning. The project would not result in a land use conflict. The project would include 64 parking spaces, which would exceed the 47 parking spaces required by City parking standards. As discussed in Section 17, *Transportation,* traffic generated by the project would be consistent with existing commercial and light industrial uses in the project area, and would not result in significant impacts related to VMT.

Source: City of San Leandro 2016a

As shown above, the project would be consistent with applicable City's General Plan policies that aim to avoid or mitigate environmental effects.

San Leandro Municipal Code

The SLMC contains several regulations that intend to avoid or mitigate environmental effects in the City. Table 21 shows policies that aim to avoid or mitigate environmental effects and the project's consistency with those regulations.

Table 21 Project Consistency with the SLMC

San Leandro Municipal Code	Project Consistency
Section 7-5-600. SLMC Section 7-5-600 adopts the California Green Building Standards Code (CALGreen) as the Green Building Code of San Leandro.	**Consistent.** As described in Section 6, *Energy,* the project would be required to implement the California Green Building Standards Code.
Chapter 5-2. Chapter 5-2 establishes that street trees in San Leandro are property of the City, and outlines requirements for removal and planting of street trees.	**Consistent.** According to the arborist report (Appendix A), the project would not require removal of street trees. As described in the *Project Description,* the project would involve removal of 10 onsite trees, none of which are street trees protected by this ordinance. The project would be consistent with this chapter of SLMC.
Chapter 3-15. Chapter 3-15 of SLMC contains standards and requirements for development projects to avoid non-stormwater discharges into the municipal separate storm sewer. **Chapter 7-12.** Chapter 7-12 contains standards and permit requirements for grading and excavation, and requires preparation of an erosion and sedimentation control plan and drainage plan in order to reduce water quality impacts of stormwater runoff from the site for the life of the project.	**Consistent.** As described in Section 10, *Hydrology and Water Quality,* the project would be required to comply with NPDES permit requirements, C.3 Stormwater Guidelines, and would involve the installation of bioretention areas to treat and direct stormwater flows. The project would also be required to comply with grading and excavation regulations established by the City and obtain appropriate permits prior to project approval. The project would be consistent with these chapters of the SLMC.
Chapter 3-22. Chapter 3-22 outlines Bay-friendly landscaping requirements for projects in San Leandro, which consists of native, low-water use vegetation.	**Consistent.** As described in the *Project Description,* the project would incorporate water efficient landscaping for plantings throughout the project site.

Source: SLMC 2022

As shown above, the project would be consistent with the SLMC and applicable building codes that intend to avoid or mitigate environmental effects.

LESS-THAN-SIGNIFICANT IMPACT

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12 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?	☐	☐	☐	■

Setting

According to mapping completed by the State of California for suitability of use as construction materials, it was determined that no minerals or aggregate resources of statewide importance are located within San Leandro (California Department of Conservation 1996). In addition, there are no natural gas, oil, or geothermal resources identified in or adjacent to San Leandro.

Regulatory Setting

Surface Mining and Reclamation Act of 1975

Pursuant to the mandate of the Surface Mining and Reclamation Act of 1975, the State Mining and Geology Board requires all cities to incorporate into their general plans mapped mineral resources designations approved by the State Mining and Geology Board.

Impact Analysis

a. Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

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

The project site and surrounding properties are part of an urbanized area with no current oil or gas extraction. San Leandro's 2035 General Plan does not identify mineral deposits of regional significance within the city (City of San Leandro 2016a). No mineral resource activities would be altered or displaced by the proposed project. There would be no impact.

NO IMPACT

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13 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?	☐	☐	■	☐
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?	☐	☐	☐	■

Analysis in this section is based in part on a Noise Impact Analysis Report prepared by FirstCarbon Solutions in July 2022, which was peer-reviewed by Rincon Consultants in October 2022. FirstCarbon Solutions prepared a revised Noise Impact Analysis Report in January 2023. The revised report and peer review memorandum is included as Appendix I.

Noise Fundamentals

The unit of measurement used to describe a noise level is the decibel (dB). However, the human ear is not equally sensitive to all frequencies within the sound spectrum. Therefore, a method called "A-weighting" is used to filter noise frequencies that are not audible to the human ear. A-weighting approximates the frequency response of the average young ear when listening to most ordinary everyday sounds. When people make relative judgments of the loudness or annoyance of a sound, their judgments correlate well with the "A-weighted" levels of those sounds. Therefore, the A-weighted noise scale is used for measurements and standards involving the human perception of noise. In this analysis, all noise levels are A-weighted, and the abbreviation "dBA" is understood to identify the A weighted decibel.

Decibels are measured on a logarithmic scale that quantifies sound intensity in a manner similar to the Richter scale used for earthquake magnitudes. A 10 dB increase represents a 10-fold increase in sound intensity, a 20 dB increase is a 100-fold intensity increase, a 30 dB increase is a 1,000-fold intensity increase, etc. Similarly, a doubling of a noise source, such as doubling of traffic volume, would increase the noise level by 3 dB; a halving of the noise source would result in a 3 dB decrease.

Human perception of noise has no simple correlation with acoustical energy. The perception of noise is not linear in terms of dBA or in terms of acoustical energy. Two equivalent noise sources combined do not sound twice as loud as one source. It is widely accepted that the average healthy ear can barely perceive changes of 3 dBA (increase or decrease); that a change of 5 dBA is readily perceptible; and that an increase or decrease of 10 dBA sounds twice (half) as loud (California Department of Transportation [Caltrans] 2013).

Descriptors

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

The L_{eq} is the level of a steady sound that, in a specific time period and at a specific location, has the same A-weighted sound energy as the time-varying sound. For example, $L_{eq(1h)}$ is the equivalent noise level over a 1-hour period and $L_{eq(8h)}$ is the equivalent noise level over an 8-hour period. $L_{eq(1h)}$ is a common metric for limiting nuisance noise, whereas $L_{eq(8h)}$ is a common metric for evaluating construction noise.

The CNEL is a 24-hour equivalent sound level. The CNEL calculation applies an additional 5 dBA penalty to noise occurring during evening hours (between 7:00 p.m. and 10:00 p.m.) and an additional 10 dBA penalty to noise occurring during the night (between 10:00 p.m. and 7:00 a.m.). These increases for certain times are intended to account for the added sensitivity of humans to noise during the evening and night.

Propagation

Sound from a small, localized source (approximating a “point” source) radiates uniformly outward as it travels away from the source in a spherical pattern, known as geometric spreading. The sound level decreases or drops off at a rate of 6 dBA for each doubling of distance.

Traffic noise is not a single, stationary point source of sound. Over some time interval, the movement of vehicles makes the source of the sound appear to emanate from a line (line source) rather than a point. The drop-off rate for a line source is 3 dBA for each doubling of distance.

Vibration

Groundborne vibration of concern in environmental analysis consists of the oscillatory waves that move from a source through the ground to adjacent structures. The number of cycles per second of oscillation makes up the vibration frequency, described in terms of hertz (Hz). The frequency of a vibrating object describes how rapidly it oscillates. The normal frequency range of most groundborne vibration that can be felt by the human body is from a low of less than 1 Hz up to a high of about 200 Hz.

While people have varying sensitivities to vibrations at different frequencies, in general they are most sensitive to low-frequency vibration. Vibration in buildings, such as from nearby construction activities, may cause windows, items on shelves, and pictures on walls to rattle. Vibration of building components can also take the form of an audible low-frequency rumbling noise, referred to as groundborne noise. Groundborne noise may result in adverse effects, such as building damage, when the originating vibration spectrum is dominated by frequencies in the upper end of the range

(60 to 200 Hz). Vibration may also damage infrastructure when foundations or utilities, such as sewer and water pipes, physically connect the structure and the vibration source (Federal Transit Administration 2018). Although groundborne vibration is sometimes noticeable in outdoor environments, it is almost never annoying to people who are outdoors. The primary concern from vibration is that it can be intrusive and annoying to building occupants and vibration-sensitive land uses.

Vibration energy spreads out as it travels through the ground, causing the vibration level to diminish with distance away from the source. High-frequency vibrations diminish much more rapidly than low frequencies, so low frequencies tend to dominate the spectrum at large distances from the source. Discontinuities in the soil strata can also cause diffractions or channeling effects that affect the propagation of vibration over long distances (Caltrans 2013). When a building is impacted by vibration, a ground-to-foundation coupling loss will usually reduce the overall vibration level. However, under rare circumstances, the ground-to-foundation coupling may actually amplify the vibration level due to structural resonances of the floors and walls.

Vibration amplitudes are usually expressed in peak particle velocity (ppv) or RMS vibration velocity. The ppv and RMS velocity are normally described in inches per second (in/sec). The ppv is defined as the maximum instantaneous positive or negative peak of a vibration signal. The Federal Transit Administration established standards for vibration impact assessments These guidelines are published in its Transit Noise and Vibration Impact Assessment Manual and are summarized below in Table 22.

Table 22 Federal Transit Administration Construction Vibration Impact Criteria

Building Category	in./sec. ppv
Reinforced – Concrete, Steel, or Timber (no plaster)	0.5
Engineered Concrete and Masonry (no plaster)	0.3
Non-engineered Timber and Masonry Buildings	0.2
Buildings Extremely Susceptible to Vibration Damage	0.12

Source: Appendix I

Regulatory Setting

California Code of Regulations

The CCR, Title 24, Section 1207.4 requires interior noise levels attributable to exterior sources to be at or below 45 dBA in any habitable room of a development based on the noise metric used in the noise element of the local general plan. All residential windows, exterior doors, and exterior wall assemblies would be required to have sound transmission class ratings that would ensure adequate attenuation of noise at a range of frequencies. The Environmental Hazards Element of the City of San Leandro 2035 General Plan uses a noise metric of CNEL, consistent with the reference level for State noise law. Therefore, interior noise levels of the project would need to be at or below 45 dBA CNEL to be compliant with CCR requirements.

City of San Leandro 2035 General Plan

The Environmental Hazards Element of the General Plan provides goals, policies, and program to assure the appropriateness of new development with the noise environment of San Leandro.

Table 23 shows the General Plan's land use compatibility chart. Applicable goals and policies are as follows:

Goal NOI-1 Ensure that noise associated with the day-to-day activities of San Leandro residents and businesses does not impede the peace and quiet of the community.

EH-7.1 **Noise Compatibility Table.** Ensure that potential noise impacts are considered when new development is proposed. Projects that could significantly increase noise levels should incorporate mitigation measures to reduce such impacts. Apply the standards shown in Chart 7-2 when evaluating applications for future development. Chart 7-2 specifies the maximum noise levels that are normally acceptable, conditionally acceptable, and normally unacceptable for new development.

Table 23 City of San Leandro Noise and Land use Compatibility Guidelines

	Community Noise Exposure (CNEL dBA)			
Land Use Category	**Normally Acceptable**	**Conditionally Acceptable**	**Normally Unacceptable**	**Clearly Unacceptable**
Residential: Low Density, Single-family, Duplex, Mobile Homes	<60	55-70	70-75	75<
Residential: Multi Family	<65	60-70	70-75	75<
Transient lodging (hotels/motels)	<60	60-70	70-80	80<
Schools, Libraries, Churches, Hospitals, Nursing Homes	<70	60-70	70-80	80<
Auditoriums, Concert Halls, Amphitheaters	NA	70>	NA	65<
Playgrounds, Neighborhood Parks	<70	70-80	NA	7.25<
Golf Courses, Riding Stables, Water Recreation, Cemeteries	<75	70-80	NA	80<
Office Buildings, Business Commercial and Professional	<70	67.5-75	75<	NA
Industrial, Manufacturing, Utilities, Agriculture	<75	70-80	75<	NA

Source: City of San Leandro 2016a

City of San Leandro Municipal Code

Chapter 4-1 of the City's Municipal Code provides restrictions and regulations for noise within San Leandro. The noise-related code does not contain numerical noise level limits and is aimed more at prohibiting "disturbing, excessive and offensive noises" so as to abate public nuisances relative to noise. The following section forms the framework for these nuisance-related restrictions.

Section 4-1-110 of SLMC establishes a general prohibition of noise which causes discomfort or annoyance to reasonable persons of normal sensitivity. The factors which should be considered in determining whether a violation of this section exists include but are not limited to the sound level of the objectionable and ambient noise, the proximity of the noise to residential property, and the duration of the noise.

Section 4-1-115 prohibits certain acts related to noise, such as construction-related noise near residential uses outside of the hours of 7 a.m. and 7 p.m. on weekdays and 8 a.m. and 7 p.m. on weekends. Noise within public parks and noise that conflicts with residential uses is also prohibited.

Neither the City of San Leandro nor the County of Alameda has specific and/or quantitative regulatory standards for construction or operational vibration sources. San Leandro Zoning Code Part IV, Article 16, Division 3, Provision 4-1670B, Vibration, requires that no use, activity, or process produce vibrations that are perceptible without instruments by a reasonable person at the property lines of a site. This performance standard applies to all land use classifications in all zoning districts.

Project Noise Setting

Sensitive Receivers

Noise exposure goals for various types of land uses reflect the varying noise sensitivities associated with those uses. The San Leandro General Plan Environmental Hazards Element identifies noise-sensitive land uses as residential land uses, schools, and open space and recreation areas (City of San Leandro 2016b). The nearest sensitive receivers are single-family residences located approximately 500 feet southwest of the project site, which are shielded from the project site by an existing 8-foot high wooden sound wall at their east and north side property boundary (Appendix I).

Methodology

Construction Noise

For purposes of this analysis, a significant impact would occur if construction activities would result in a substantial temporary increase in ambient noise levels that exceeds standards established in City's General Plan or noise ordinance. The SLMC has established limits on permissible hours of construction for any construction work or related activity adjacent to or across a street of right-of-way from residential use, except between the hours of 7:00 a.m. to 7:00 p.m., Monday through Friday, and 8:00 a.m. to 7:00 p.m. on Saturday and Sunday. Noise impacts from construction activities associated with the proposed project would be a function of the noise generated by construction equipment, equipment location, sensitivity of nearby land uses, and the timing and duration of the construction activities.

Operational Noise

A significant impact would occur if implementation of the proposed project would result in a substantial increase in traffic noise levels compared to existing noise levels (Federal Highway Administration [FHWA] 2018). The City of San Leandro considers an increase of 3 dBA as a significant adverse impact in ambient noise levels (FHWA 2018; Appendix I). As noted in the characteristics of noise discussion, audible increases in noise levels generally refer to a change of 3 dBA or more, as this level has been found to be barely perceptible to the human ear in outdoor environments. A change of 5 dBA is considered the minimum readily perceptible change to the human ear in outdoor environments. Therefore, for purposes of this analysis, an increase of greater than 3 dBA above existing traffic noise levels would be considered a substantial permanent increase in traffic noise levels.

Traffic noise levels along selected roadway segments in the project vicinity were modeled using the FHWA Traffic Noise Prediction Model (FHWA-RD-77-108). This model uses site-specific information, such as roadway traffic volumes, roadway active width, source-to-receiver distances, travel speed,

noise source and receiver heights, and the percentages of automobiles, medium trucks, and heavy trucks that the traffic is made up of throughout the day, among other variables. The daily traffic volumes were obtained from the traffic analysis prepared for the project by Kittelson & Associates (Appendix C).

Groundborne Vibration

Groundborne noise is generated when vibrating building components radiate sound, or noise generated by groundborne vibration. In general, if groundborne vibration levels do not exceed levels considered to be perceptible, then groundborne noise levels would not be perceptible in most interior environments. Therefore, this analysis focuses on determining exceedances of groundborne vibration levels.

A significant impact would occur if the project would generate groundborne vibration or groundborne noise levels in excess of established standards. The City of San Leandro has not adopted criteria for groundborne vibration impacts. Therefore, this analysis uses the FTA's vibration impact criteria established in the Transit Noise and Vibration Impact Assessment Manual. These standards are summarized in Table 22.

Impact Analysis

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

Construction Noise

Short-term noise impacts during construction could result from increases in traffic flow on local streets associated with the transport of workers, equipment, and materials to and from the project site. The transport of workers and construction equipment and materials to the project site would incrementally increase noise levels on roads leading to the site. Typically, a doubling of the Average Daily Traffic (ADT) hourly volumes on a roadway segment is required in order to result in an increase of 3 dBA in traffic noise levels, which is the lowest change that can be perceptible to the human ear in outdoor environments. ADT was estimated in the Traffic Impact Analysis, and the roadway segments along the project site have approximate ADT volumes of 15,600 to 17,400 trips (Appendix C). The CalEEMod analysis performed to estimate air quality and GHG emissions impacts estimated that the project would result in approximately 550 construction worker and vendor trips (Appendix F). Therefore, project-related construction trips would not double the hourly or daily traffic volumes along roadway segments in the project vicinity. Short-term intermittent noise from construction trips would not be expected to result in a perceptible increase in hourly- or daily average traffic noise levels in the project vicinity, and short-term construction-related noise impacts associated with the transportation of workers and equipment to the project site would be less than significant.

Short-term construction noise impacts would also be generated during project construction phases. Table 24 lists typical construction equipment noise levels, based on a distance of 50 feet between the equipment and a noise receptor.

Table 24 Typical Construction Equipment Maximum Noise Levels

Type of Equipment	Noise Level at 50 Feet (dBA)
Rollers	85
Bulldozers	85
Tractors	84
Front-End Loaders	80
Backhoe	80
Excavator	85
Graders	85
Air Compressors	80
Dump Truck	84
Concrete Mixer Truck	85
Pickup Truck	55
Scraper	85

dBA = A-weight decibels

Source: Federal Highway Administration 2006.

Project construction would occur over several phases, each of which would involve various construction equipment. The site preparation phase, which includes excavation and grading of the site, typically generates the highest noise levels through the use of earthmoving equipment. Earthmoving equipment includes excavating machinery and compacting equipment, such as bulldozers, draglines, backhoes, front loaders, roller compactors, scrapers, and graders. Construction of the project is expected to require the use of scrapers, bulldozers, water trucks, haul trucks, and pickup trucks.

Based on typical construction equipment, this analysis assumes simultaneous operation of a scraper, a bulldozer, and a vibratory roller. As shown in Table 24, the maximum noise level generated by each scraper is assumed to be 85 dBA L_{max} at 50 feet from this equipment. Each bulldozer would also generate 85 dBA L_{max} at 50 feet. The maximum noise level generated by rollers is approximately 85 dBA L_{max} at 50 feet. Assuming that each piece of construction equipment operates generally near the center of the project site, a conservative noise level during this phase of construction would be 90 dBA L_{max} at a distance of 50 feet from the center of the project site. This would result in an hourly average of 86 dBA L_{eq}.

The nearest sensitive receptors are single-family residences located approximately 500 feet southwest of the project site. Noise would attenuate over this distance at rate of approximately 6 dBA per each doubling of distance; additionally, residences are shielded from the project site by an existing eight-foot sound wall. Assuming minimal shielding from the existing sound wall, maximum construction noise levels would attenuate to below 59 dBA L_{max} at the nearest sensitive receptors (Appendix I). Although there could be intermittent periods of high noise levels, impacts to ambient construction noise at an hourly or daily level would be less than significant. Additionally, the project would be required to comply with the City's noise ordinance which restricts construction activities to the daytime hours of between 7:00 a.m. and 7:00 p.m. on weekdays, or between 8:00 a.m. and 7:00 p.m. on Sunday and Saturday, which would avoid potential impacts to nearby sensitive receptors during nighttime hours.

Therefore, construction noise levels would not result in a substantial temporary increase in ambient noise levels in excess of standards established in the City's General Plan or noise ordinance. Construction impacts would be less than significant.

Operational Noise

Mobile Source Operational Noise

Additional vehicle trips on area roadways generated by the proposed project could result in increases to ambient noise levels. Existing noise levels along adjacent roadway segments were compared to estimated levels of noise generated by additional vehicle trips associated with the project. The model inputs and outputs are provided in Appendix I. Table 25 shows existing traffic noise levels and predicted noise increases at project area roadway segments.

Table 25 Traffic Noise Increase Summary

Roadway Segment	Existing Noise Level (dBA CNEL)	Existing plus Project Estimated Noise Level (dBA CNEL)	Increase over Existing Noise Level (dBA CNEL)
Washington Avenue – San Leandro Boulevard to 139th Avenue	73.6	73.6	<0.1
Washington Avenue – 139th Avenue to 143rd Avenue	72.3	72.3	<0.1
Washington Avenue – 143rd Avenue to Halcyon Drive	72.6	72.6	<0.1

dBA = A-weighted decibel
CNEL = Community Noise Equivalent Level
Source: Appendix I

As shown in Table 25, implementation of the proposed project would result in a negligible increase in traffic noise levels on roadway segments adjacent to the project site where the highest concentration of project trips would occur. This is due to the minimal ADT generated by the project, 329 net new daily trips including approximately 56 truck trips, compared to existing traffic volumes on Washington Avenue (Appendix C). Therefore, impacts related to project-related traffic noise levels would be less than significant.

Stationary Source Operational Noise

The proposed project would generate operational noise associated with truck delivery; loading and unloading activities at commercial loading areas; parking lot activities, which would include people conversing, doors shutting, engine startup, and slow-moving vehicles; and from new exterior mechanical equipment sources, such as proposed rooftop ventilation systems. Potential impacts from these noise sources are discussed below.

TRUCK LOADING ACTIVITIES

Noise would be generated by truck operation activities at the loading docks along the southern, western, and northern sides of the proposed warehouse. The project would generate an estimated 56 daily truck trips (Appendix C). Typical noise levels from truck operation, including but not limited to truck loading and unloading, trucks docking and maneuvering, and truck back-up alarms range from 70 dBA to 80 dBA L_{max} as measured at 50 feet (Appendix I).

The nearest sensitive receptors to the proposed truck loading areas are single-family residences located 500 feet southwest of the project site. The proposed loading docks would be located approximately 650 feet from this closest sensitive receptor. Noise would attenuate over this distance at rate of approximately 6 dBA per each doubling of distance. Additionally, sensitive receptors would also be shielded by the existing 8-foot high sound wall. For a conservative analysis, it is assumed that these activities would occur for a 24-hour period and that the sound wall would provide minimal shielding. Truck operation activities would result in a 24-hour average noise level of 56 dBA L_{dn} as measured at the nearest sensitive receptors. Calculations are included in Appendix I.

As shown in Table 25, existing traffic noise levels along Washington Avenue adjacent to the project site average at least 72 dBA L_{dn}. The nearest residential receptors are located approximately 280 feet from the centerline of Washington Avenue. At this distance, noise levels from traffic on Washington Avenue would attenuate to 58 dBA L_{dn}. Therefore, noise levels from truck operation activities would not exceed existing background noise levels as measured at the nearest residential receptor. Noise levels from truck operation activities would not generate a substantial temporary or permanent increase in ambient noise levels. Project operation noise would not exceed standards established in the City's General Plan or municipal code, and impacts would be less than significant.

PARKING LOT ACTIVITIES

Typical parking lot activities include people conversing, doors shutting, and vehicles idling, which generate noise levels ranging from approximately 60 dBA to 70 dBA L_{max} at a distance of 50 feet (Appendix I). These activities are anticipated to occur sporadically throughout the day, as visitors and staff arrive and leave parking lot areas at the project site.

The nearest noise-sensitive receptor to proposed parking areas are single-family residences located 500 feet southwest of the project site. The proposed parking areas would be located approximately 560 feet from the closest sensitive receptor and would be shielded from the project site by the existing eight-foot high sound wall. It was conservatively assumed that these activities would occur for a 24-hour period and that minimal shielding would be provided by the sound wall. Noise levels generated from typical parking lot activity would result in a 24-hour average noise level of 44 dBA L_{dn} at the nearest sensitive receptors. Calculations are included in Appendix I.

Existing traffic noise from traffic on Washington Avenue would attenuate at a rate of 6 dBA per doubling of distance to be 42 dBA L_{dn} as measured at the nearest residential receptor (Appendix I). Therefore, noise levels from project-related parking lot activity would not exceed existing background noise levels as measured at the nearest residential receptor, and would not generate a substantial temporary or permanent increase in ambient noise levels in the project vicinity. Parking lot activity noise would not exceed noise standards established in the City's General Plan or municipal code, and impacts would be less than significant.

MECHANICAL EQUIPMENT OPERATIONS

At the time of preparation of this analysis, specifications of the proposed rooftop mechanical ventilation systems were not available. A reference noise level of 50 dBA to 60 dBA L_{eq} at a distance of 25 feet was used for commercial rooftop mechanical ventilation equipment (Appendix I).

The nearest sensitive receptors to the proposed rooftop mechanical ventilation equipment are the single-family residences located 500 feet southwest of the project site. It was conservatively assumed that mechanical ventilation equipment would operate over 24 hours and the existing sound wall would provide minimal shielding. Noise levels generated from rooftop mechanical

ventilation equipment would attenuate over this distance at rate of approximately 6 dBA per each doubling of distance and would result in a 24-hour average noise level of 38 dBA L_{dn} at the nearest sensitive receptors. As noted previously under *Truck Loading Activities* and *Parking Lot Activities*, existing traffic noise from traffic on Washington Avenue would attenuate to 58 dBA Ldn as measured at the nearest residential receptor (Appendix I).Calculations are included in Appendix I.

Noise levels from rooftop mechanical ventilation equipment operations would not exceed existing background noise levels as measured at the nearest residential receptor. Therefore, noise levels from mechanical ventilation equipment operations would not generate a substantial temporary or permanent increase in ambient noise levels. Noise would not exceed standards established by the City's General Plan or municipal code, and impacts would be less than significant.

Altogether, construction and operation associated with the proposed project would not result in a substantial increase to ambient noise levels and would not generate noise in excess of standards as established by the 2035 General Plan or SLMC. Impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

b. Would the project result in generation of excessive groundborne vibration or groundborne noise levels?

Construction Vibration

The site preparation phase of project construction would involve use of large vibratory rollers, which would produce the greatest groundborne vibration levels during project construction. Large vibratory rollers produce groundborne vibration levels ranging up to 0.201 in/sec ppv at a distance of 25 feet. The nearest receptor to the project site is a lumber store, located 70 feet northwest of the project site. At this distance, groundborne vibration levels would be approximately 0.04 ppv (Appendix I). This would be below the Federal Transit Administration's Construction Vibration Impact Criteria of 0.2 ppv for this type of structure – non-engineered timber and masonry buildings (Table 22). Therefore, project construction activities would not generate groundborne vibration or groundborne noise levels in excess of established standards. Impacts related to construction vibration would be less than significant.

Operational Vibration

Operation of the project would not include new sources of vibration. Temporary sources of vibration, such as trucks, are not considered sources of groundborne vibration levels as vibration from trucks would not be substantially perceptible at sensitive receivers (Appendix I). Additionally, there are no active sources of groundborne vibration in the project vicinity that would produce perceptible levels of vibration. Therefore, the project would not generate groundborne vibration or groundborne noise levels in excess of established standards and there would be no impact related to operational groundborne vibration.

LESS-THAN-SIGNIFICANT 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?

The nearest public airport to the project site is the Oakland International Airport, located approximately 3.3 miles northwest of the project site. According to the airport's noise exposure map, the project site is located outside of the 60 dBA CNEL airport noise contours (Appendix I). While flying aircraft noise is occasionally audible on the project site, aircraft noise associated with nearby airport activity would not expose people residing or working near the project site to excessive noise levels. Therefore, implementation of the project would not expose persons residing or working in the project vicinity to noise levels from airport activity that would be in excess of normally acceptable standards for the proposed land use development, and no impact would occur.

NO IMPACT

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14 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 (e.g., by proposing new homes and businesses) or indirectly (e.g., through extension of roads or other infrastructure)?	□	□	■	□
b. Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	□	□	□	■

Setting

According to the California Department of Finance (DOF), San Leandro had an estimated population of 87,497 people with 33,223 housing units as of January 2023 (DOF 2022). The average number of persons per household is estimated at 2.75. The City of San Leandro General Plan Environmental Impact Report provides projections for the City's population through the year 2030. The population of San Leandro is projected to be 103,300 by the year 2030 (City of San Leandro 2016b).

Impact Analysis

a. Would the project 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)?

The project would involve the construction of a warehouse structure; it would not involve the construction of new dwelling units and would therefore not directly induce population growth in the City. The project could facilitate the creation of jobs that could indirectly cause population growth through employee relocations to the project area. According to default occupancy rates established by the United States Green Building Council, general office spaces generate one employee per 250 square feet, and distribution warehouses generate one employee per 2,500 square feet (United States Green Building Council 2008). Applying these employee occupancy rates to the 5,000 square feet of office space and the 52,269 square feet of warehouse space, the project would generate an estimated 41 employees.[4] Considering a conservative, maximum-growth scenario where each employee relocates to San Leandro, the proposed project could generate approximately 113 new residents, based on 41 employees and the average of 2.75 persons per household in San Leandro (DOF 2022). As of January 2023, San Leandro's estimated population is 87,497 (DOF 2022).The population of San Leandro is projected to be 103,300 by 2030, an increase of 15,803 from the

[4] 5,000 square feet of office space divided by 250 square feet per office employee is 20 employees. 52,269 square feet of warehouse space divided by 2,500 square feet per warehouse employee is approximately 21 employees.

current 2023 estimated population.[5] The addition of 113 new residents from the proposed project would constitute less than one percent[6] of the total growth until 2030 and the potential population increase as a result of the proposed project under this scenario would be well within this projected population increase. Therefore, the project would not induce substantial or unplanned growth. Impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

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

The project site was previously developed with two single-family residences that were destroyed during a structural fire in 2022; however, these residences were abandoned and unoccupied prior to the fire. Therefore, the project would not displace existing people or housing and no impact would occur.

NO IMPACT

[5] 103,300 (projected population)-87,497(current population) = 15,803
[6] (113/15,803) x 100 = 0.7

15 Public Services

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a.	Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
	1 Fire protection?	☐	☐	■	☐
	2 Police protection?	☐	☐	■	☐
	3 Schools?	☐	■	☐	☐
	4 Parks?	☐	☐	■	☐
	5 Other public facilities?	☐	☐	■	☐

Setting

The Alameda County Fire Department (ACFD) provides fire protection and emergency medical service to San Leandro. ACFD is divided into four branches: Operations, Special Operations, Fire Prevention, and Administrative Support Services (ACFD 2021a). ACFD operates six fire stations in San Leandro (Station Nos. 9 through 13 and 24) (ACFD 2021b). The closest fire station to the project site is ACFD Station No. 12, located 1,500 feet northeast of the project site at 1065 [1]43rd Avenue (ACFD 2021b).

The San Leandro Police Department (SLPD) provides law enforcement services for the city. SLPD has one police station located at San Leandro City Hall at 835 East 14th Street, approximately 1.6 miles north of the project site. As of 2019, SLPD is staffed by 90 sworn personnel and 44 civilian employees (SLPD 2019).

The San Leandro Unified School District (SLUSD) and San Lorenzo Unified School District provide public educational services to San Leandro. SLUSD serves approximately 8,712 students across eight elementary schools, two middle schools, two high schools, and one adult education school (California Department of Education 2022). According to SLUSD's 2020 Developer Fee Justification Study, the district is slightly under capacity, with enrollment availability for 73 additional students. Broken down by grade level, kindergarten through 6th grade facilities are over capacity by 282 students, 7th through 8th grades have an available capacity for 532 students, and 9th through 12th

grade facilities are over capacity by 178 students (SLUSD 2020). San Lorenzo Unified School District, specifically Dayton Elementary School and Corvalis Elementary School, serve a small portion of southwestern San Leandro (San Lorenzo Unified School District 2022).

The City of San Leandro Public Works Department maintains neighborhood parks, special use recreation areas, community parks, and golf courses in the city, totaling 382.8 acres of improved parkland. The City's General Plan Open Space, Parks, and Conservation Element outlines a goal to provide at least 5 acres of improved parkland for every 1,000 residents (City of San Leandro 2016a). As discussed in Section 14, *Population and Housing,* the population of San Leandro is currently estimated at 87,497 people; therefore, the City has approximately 4.37 acres of improved parkland per 1,000 residents.[7]

Regulatory Setting

San Leandro 2035 General Plan

The City of San Leandro's 2035 General Plan Community Services and Facilities Element addresses the provision of community services, including fire protection and police protection. Additionally, the element emphasizes the importance of reducing risk and the effects of disaster prevention and/or preparedness (City of San Leandro 2016a). The following policies found within the element are applicable to fire and police protection services within the City:

Goal CSF-1. Provide and maintain high-quality police, fire, and emergency medical services.

Policy CSF-1.1 Maintain high-quality police and fire protection services through the most efficient and effective possible means. The following minimum level of service standards for police and fire response time (exclusive of dispatch time) shall be maintained: (a) Police Services: 5 minute response time for 90 percent of all Priority One calls; (b) Fire Services: 5 minute response time for first due company for 90 percent of all emergency incidents, excluding freeway responses (3 firefighters including at least one paramedic); 10 minute response time for 90 percent for a full first alarm assignment response (17 firefighters).

Policy CSF-1.5 Require Police and Fire Department review of proposed development plans to ensure that sufficient provisions for emergency access and response are made, fire code requirements are satisfied, and adequate levels of service can be provided.

The Community Services and Facilities Element also addresses parkland, open space, and recreational facilities in and nearby San Leandro. The following policies found within the element are applicable to recreational facilities within the City:

Goal OSC-2 Develop additional parkland in the city to better meet existing needs and to respond to future needs.

Policy OSC-2.1 Achieve the following service standard for parks: (a) At least 5.00 acres of improved parkland per 1,000 residents; (b) A park within one-half mile of each San Leandro resident.

[7] 382.8 acres of improved parkland divided by 87,497 thousand residents in San Leandro is approximately 4.37 acres.

San Leandro Municipal Code

Section 7-5-800 adopts the California Fire Code, which contains regulations for safeguarding life and property from the hazards of fire and explosion; dangerous conditions arising from the storage, handling, and use of hazardous materials; and hazardous conditions in the use of occupancy of buildings. Development within San Leandro would be required to comply with the requirements on the California Fire Code.

Article 8 of Title 7 of the SLMC enables the City Council to require dedication of lands deemed necessary for the purpose of constructing schools necessary to assure the residents of a subdivision have adequate elementary school service as a condition of final map approval for a subdivision.

SLMC Chapter 7-13 establishes the City's park facilities development impact fee which, pursuant to Government Code Section 66001, allows the City to apply fees to new development to pay for new or renovated park facilities. Development in San Leandro is required to pay appropriate park development fees. Further, SLMC Section 7-1-810 requires that as a condition of approval of a tentative map or parcel map, subdivisions are required to offer to dedicate parkland, pay a fee in lieu, or a combination of both (at the option of the City).

Impact Analysis

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

1 Fire protection?

2 Police Protection?

3 Schools?

4 Parks?

5 Other public facilities?

ACFD Fire Station No. 12 is located approximately 0.3-mile northeast of the project site at 1065 143rd Avenue. The project site is located within a developed area already served by ACFD, and the project would not require new or expanded fire facilities. The project would be required to comply with California Fire Code regulations for construction and operation, and would be subject to review by ACFD. The project would also be required to pay an impact fee that would be collected at the time project building permits would be issued to maintain acceptable service ratios and response times. Therefore, impacts to fire protection services would be less than significant.

The SLPD station is located at San Leandro City Hall at 835 East 14th Street, approximately 1.6 miles north of the project site. As discussed in Section 14, *Population and Housing,* the project could add approximately 113 residents to the city in a maximum-growth scenario. However, the project site is in an urban area that is currently served by SLPD, and the growth that could be generated by the project would be well within population projections established by the City's General Plan. The addition of up to 113 residents to the SLPD's service area would not require new or expanded facilities. As the project site is currently served by SLPD, there would not be an increase in response times such that the construction of additional police protection facilities would be required. Impacts to police protection services would be less than significant.

The project would involve the construction of a warehouse structure and would not create additional housing. However, as discussed in Section 14, *Population and Housing,* the project could generate approximately 113 new residents in San Leandro in a conservative, maximum growth scenario wherein all employees would relocate to the region. According to the United States Census Bureau, approximately 20.6 percent of Alameda County's population is school-aged, or 18 years old and younger. Applying this rate to the estimated project population, the project could generate approximately 24 students in the SLUSD or San Lorenzo Unified School District areas (United States Census Bureau 2020). This would represent an incremental increase in student population. In addition, school fees would be paid at the time the building permit is issued to reduce impacts as a result of the proposed project. Pursuant to Section 65995(3)(h) of the California Government Code (Senate Bill 50, chaptered August 27, 1998), the payment of statutory fees "...is deemed to be full and complete mitigation of the impacts of any legislative or adjudicative act, or both, involving, but not limited to, the planning, use, or development of real property, or any change in governmental organization or reorganization." Thus, payment of the development fees is considered full mitigation for the proposed project's impacts related to schools under CEQA and impacts would be less than significant.

The nearest park to the proposed project is Halcyon Park located approximately 0.4 mile east of the project site. The project would not directly increase the City's population as it does not involve the creation of housing units. However, the project could indirectly result in the addition of up to 113 new residents to the city. As of January 2022, the City of San Leandro had a population of 88,404 people (DOF 2022). As described under *Setting,* the City has approximately 4.33 acres of improved parkland per 1,000 residents. The potential addition of 113 residents would not substantially affect this ratio and would not hinder the City's goal of providing five acres of parkland per 1,000 residents. Additionally, the project applicant would be required to pay City park facilities development impact fees pursuant to SLMC Chapter 7-13, which would support the addition of new parks or renovations to existing parks. Therefore, impacts to parks and recreational facilities would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

16 Recreation

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
a. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	□	□	■	□
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?	□	□	■	□

Setting

As discussed in Section 15, *Public Services,* the City of San Leandro Public Works Department maintains approximately 382.8 acres of improved parkland, and that there are approximately 4.33 acres of improved parkland per 1,000 residents. The nearest park to the project site is Halcyon Park, located 0.4 mile east of the project site.

Regulatory Setting

Quimby Act

California Government Code Section 66477, also known as the Quimby Act, was enacted by the California legislature in 1965. The Quimby Act authorizes cities and counties to enact ordinances requiring the dedication of land, or the payment of fees for park and/or recreational facilities in lieu thereof, or both, by developers of residential subdivisions as a condition to the approval of a tentative tract map or parcel map.

See Section 15, *Public Services*, subsection *Regulatory Setting* for additional policies and regulations relevant to recreation.

Impact Analysis

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

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?

As discussed in Section 14, *Population and Housing*, the project could result in an incremental increase in the City's population and recreation facilities in San Leandro would likely see increased use. In a maximum job-creation scenario, the project would potentially introduce 113 new residents to the city. This potential increase of less than one percent would be well within the General Plan's projected 2030 population of 103,300. Therefore, the project would not introduce a substantial number of new residents to the city and thus, would not contribute to the substantial physical deterioration of facilities or require the provision of new or expanded park facilities. In addition, no recreational facilities are proposed as part of the project. This impact would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

17 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. 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 use (e.g., farm equipment)?	□	□	■	□
d. Result in inadequate emergency access?	□	□	■	□

The information and analysis included in this section is based upon the Traffic Impact Analysis report prepared by Kittelson and Associates in May 2022. The report is included as Appendix C.

Setting

The site is located on Washington Avenue, which is locally accessible via San Leandro Boulevard and Halcyon Drive. Regional access is available to the site from I-880, which is approximately 0.6 miles west of the site. The following descriptions are provided for roadways that would provide access to the site and are most likely to serve most of the project's generated vehicle, bicycle, pedestrian and transit traffic.

Existing Roadway Network

- **I-880** is a nine-lane, north-south freeway that connects San Leandro with nearby cities, such as Hayward and Oakland, and regional destinations, such as Fremont and San Jose. It also provides access to the greater freeway network with direct connections to Interstates 80, 580, 980, 238, US Highway 101, and State Routes 92, 237 and 17. The project site is served by the interchange at Washington Avenue. The average daily traffic on I- 880 in the vicinity of Washington Avenue ranges between 190,000 and 237,500 vehicles per day.
- **I-238** is a seven-lane, east-west freeway that serves as a connection between I-880 and I-580. The project site is served by the interchange at Washington Avenue. The average daily traffic on I-238 in the vicinity of Washington Avenue ranges between 162,000 and 102,000 vehicles per day.
- **I-580** is an eight-lane, north-south freeway that connects San Leandro with nearby cities, such as Oakland and Pleasanton, and regional destinations, such as Stockton. It also provides access

to the greater freeway network with direct connections to Interstates 5, 205, 238, 680, 80 and 880, and State Routes 13, 24, and 84. The project site is served by the interchange at Fairmont Drive. The average daily traffic on I-580 in the vicinity of Fairmont Drive ranges between 119,300 and 143,500 vehicles per day.

- **Washington Avenue** is a north-south road with four lanes and extends from Grant Avenue to W Juana Avenue in Downtown San Leandro. Sidewalks are located along the east and west sides of Washington Avenue in the project area, with the exception of the overpass between Springlake Drive to Beatrice Street, where there is a sidewalk only on the west side of the roadway. It is also designated as a through truck route.
- **Halcyon Drive** is a four-lane, east-west residential arterial approximately 0.5 mile southeast of the project site. It spans from Hesperian Drive to Washington Avenue. To the east, Halcyon Drive transitions to Fairmont Drive, and to the west, it transitions to Floresta Boulevard. Halcyon Drive is designated as a local truck route. Sidewalks are provided on both sides of the street in the project area.
- **San Leandro Boulevard** is a north-south arterial approximately 0.5 miles north of the project site. San Leandro Boulevard is a four-lane road with a landscaped median separating the northbound and southbound lanes. It is a designated truck through route. Sidewalks are provided on both sides of the street, and parking is permitted along some segments.

Existing Bicycle Facilities

Bicycle facilities are defined by the following four classes by the California Department of Transportation Highway Design Manual:

- **Class I (Bike Path):** Provides a completely separate facility designed for the exclusive use of bicyclists and pedestrians with crossing points minimized. Bike paths typically serve corridors not served by streets and highways or where wide right of way exists, permitting such facilities to be constructed away from the influence of parallel streets.
- **Class II (Bike Lane):** Provides a restricted right-of-way designated lane for the exclusive or semi-exclusive use of bicycles with through travel by motor vehicles or pedestrians prohibited, but with vehicle parking and cross-flows by pedestrians and motorists permitted. Bike lanes are established along streets in corridors where there is significant bicycle demand, and where there are distinct needs that can be served by them.
- **Class III (Bike Route):** Shared facilities which provide continuity to other bicycle facilities (usually Class II bikeways) or designate preferred routes through high demand corridors.
- **Class IV (Separated Bikeways):** Provides an exclusive right-of-way including a separation required between the separated bikeway and the through vehicular traffic.

There are sections of Class II bikes lanes in the project vicinity. There are marked Class II bike lanes on:

- Washington Avenue between 139th Avenue and 143rd Avenue
- Washington Avenue between Caliente Drive and Springlake Drive
- Floresta Boulevard/Farnsworth Street between Washington Avenue and Purdue Street
- Fremont Avenue between Floresta Boulevard and Alvarado Street
- Halcyon Drive between Olivia Street and Hesperian Boulevard
- San Leandro Boulevard between East 14th Street and Creekside Plaza

- Hesperian Boulevard/Bancroft Avenue between Grace Street and Springlake Drive

There are also several Class III bike routes that provide connections between bike lane facilities. These include:

- Bancroft Avenue between East 14th Street and 146th Avenue
- Alvarado Street between Fremont Avenue and Teagarden Street
- Castro Street between Washington Avenue and East 14th Street
- Sybil Avenue between East 14th Street and Grand Avenue
- 150th Avenue between Hesperian Boulevard and eastern city limits
- Washington Avenue between West Juana Avenue and San Leandro Boulevard

Existing Pedestrian Facilities

At the project site, the main pedestrian facilities are an eight-foot sidewalk (west side) and seven-foot sidewalk (east side) on either side of Washington Avenue along the west side of the project site. There are two at grade railroad crossings (one active, one inactive) located south of the project site. Two signalized intersections (Washington Avenue/139th Avenue and Washington Avenue/143rd Avenue) with marked crosswalks are located within one quarter-mile of the project site.

Existing Transit Facilities

The transit system in the study area includes bus and rail services provided by Alameda-Contra Costa Transit District (AC Transit) and Bay Area Rapid Transit (BART). As presented in Table 26, AC Transit provides three routes in the study area: Line 10, Line 28, and Line 40, which operate on weekdays and weekends. Line 10 runs along on East 14th Street, approximately 0.6 miles east of the project site and connects to the San Leandro BART station. Line 28 runs along Halcyon Drive, approximately 0.6 miles south of the project site and also connects to the San Leandro BART station. Line 40 runs along Bancroft Avenue, approximately 0.7 miles east of the project site and connects to the Bayfair BART station. Both the San Leandro and Bayfair BART stations are less than 2 miles from the project site. The two bus stops nearest the project site are both served by Line 28 and are located along Halcyon Drive/Floresta Boulevard south of the project site. The Washington Avenue/Halcyon Drive stop is about 400 feet from Washington Avenue/Halcyon Drive/Floresta Boulevard (signalized intersection with marked crossings), and the Fremont Avenue/Floresta Boulevard stop is about 600 feet from the Fremont Avenue/Floresta Boulevard intersection. AC Transit lines that serve the project site are shown in Table 26.

Table 26 AC Transit Service near the Project Site

Route	Service Area	Connections	Service Schedule	Times		
				First	Last	Frequency
10	San Leandro, Hayward	San Leandro BART, Bayfair BART, Hayward BART	Weekday	4:58 A.M.	12:39 A.M.	20 minutes
			Weekend	6:20 A.M.	12:28 A.M.	20 minutes
28	San Leandro, Castro Valley, Hayward	San Leandro BART, Castro Valley BART, Bayfair BART, Hayward BART	Weekday	5:45 A.M.	10:37 P.M.	60 minutes
			Weekend	6:00 A.M.	10:54 P.M.	60 minutes
40	Oakland, San Leandro	Bayfair BART, Eastmont Transit Center	Weekday	5:18 A.M.	12:26 P.M.	20 minutes
			Weekend	5:25 A.M.	12:14 P.M.	30 minutes

Source: Appendix C

Regulatory Setting

The determination of significance for project impacts is based on applicable policies, regulations, goals, and guidelines defined by the City of San Leandro, Santa Clara County, the Metropolitan Transportation Commission, and the State.

State Regulations

SENATE BILL 743

On September 27, 2013, SB 743 was signed into law. The legislature found that with the adoption of the Sustainable Communities and Climate Protection Act of 2008 (SB 375), the State had signaled its commitment to encourage land use and transportation planning decisions and investments that reduce vehicle miles traveled and thereby contribute to the reduction of greenhouse gas emissions, as required by the California Global Warming Solutions Act of 2006 (AB 32). In December 2018, the Governor's Office of Planning and Research (OPR) finalized new CEQA guidelines (CEQA Guidelines section 15064.3), that identify VMT as the most appropriate criteria to evaluate a project's transportation impacts.

In November 2017, OPR released a technical advisory containing recommendations regarding the assessment of VMT, proposed thresholds of significance, and potential mitigation measures for lead agencies to use while implementing the required changes contained in Senate Bill 743 (SB 743). Also in November 2017, OPR released the proposed text for Section 15064.3, "Determining the Significance of Transportation Impacts," which summarized the criteria for analyzing transportation impacts for land use projects and transportation projects and directs lead agencies to "choose the most appropriate methodology to evaluate a project's vehicle miles traveled, including whether to express the change in absolute terms, per capita, per household or in any other measure." OPR recommends that for most instances a per service population threshold should be adopted and that a fifteen percent reduction below that of existing development would be a reasonable threshold.

CALIFORNIA ASSEMBLY BILL 32, SENATE BILL 32, AND SENATE BILL 375

The "California Global Warming Solutions Act of 2006" (AB 32) outlines California's major legislative initiative for reducing GHG emissions. AB 32 codifies the statewide goal of reducing GHG emissions to 1990 levels by 2020, a reduction of approximately 15 percent below emissions expected under a "business as usual" scenario. On September 8, 2016, the governor signed Senate Bill 32 (SB 32) into law, extending the California Global Warming Solutions Act of 2006 by requiring the state to further

reduce GHG emissions to 40 percent below 1990 levels by 2030 (the other provisions of AB 32 remain unchanged).

The Sustainable Communities and Climate Protection Act of 2008 (SB 375), signed in August 2008, enhances the state's ability to reach AB 32 goals by directing CARB to develop regional GHG emission reduction targets to be achieved from passenger vehicles by 2020 and 2035. SB 375 aligns regional transportation planning efforts, regional GHG reduction targets, and affordable housing allocations. Metropolitan Planning Organizations (MPOs) are required to adopt a Sustainable Communities Strategy (SCS), which allocates land uses in the MPO's Regional Transportation Plan (RTP). Qualified projects consistent with an approved SCS or Alternative Planning Strategy (categorized as "transit priority projects") can receive incentives to streamline CEQA processing.

On March 22, 2018, CARB adopted updated regional targets for reducing GHG emissions from 2005 levels by 2020 and 2035. ABAG was assigned a 19 percent reduction in per capita GHG emissions from passenger vehicles by 2035. SB 375 also provides the option for the coordinated development of subregional plans by the subregional councils of governments and the county transportation commissions to meet SB 375 requirements. On October 21, 2021, ABAG formally adopted the RTP/SCS titled Plan Bay Area 2050, which meets the requirements of SB 375.

Local Regulations

SAN LEANDRO 2035 GENERAL PLAN TRANSPORTATION ELEMENT

The San Leandro 2035 General Plan Transportation Element establishes the following applicable goals and policies relevant to transportation:

Policy T-1.2 Mitigation of Development Impacts. Require developers to address the impacts that their projects will have on the City's transportation system. A variety of mitigation measures, including impact fees, street improvements, traffic signal and Intelligent Transportation Systems (ITS) improvements, transportation demand management (TDM) measures, and improvement of non-automobile transportation modes, should be considered.

Policy T-1.10 Reduced Trip Generation. Encourage local employers to develop programs that promote ridesharing, flextime and telecommuting, bicycle use, and other modes of transportation that reduce the number and distance of vehicle trips generated.

Policy T-2.6 Building Design and Site Planning. Ensure that the site planning and design of new development promotes the use of non-auto modes of transportation by including amenities such as sidewalks, bike lockers, and bus shelters.

Policy T-3.5. Accommodation of Bicycles and Pedestrians. Require new development to incorporate design features that make walking, bicycling, and other forms of nonmotorized transportation more convenient and attractive. Facilities for bicycles and pedestrians, including secured bicycle parking, clearly marked crosswalks, well-lit streets and sidewalks, landscaping, and street furniture should be provided within new employment areas, shopping destinations, multi-modal transportation facilities, and community facilities.

Policy T-6.7 Siting of Businesses with Truck Traffic. To the extent feasible, locate businesses projected to generate large amounts of truck traffic away from residential areas. Ingress and egress for such businesses should be designed to minimize the possibility of truck traffic impacting residential streets.

The Transportation Element also establishes a tiered Level of Service (LOS) system. LOS is a measure of the quality or performance of a transportation system based on factors such as travel time, traffic volume, and congestion. LOS is typically evaluated on a scale of "A," corresponding to no congestion and free-flowing traffic, to "F," corresponding to extreme congestion and delays. For planning purposes, LOS D is the minimum acceptable service level for intersections outside of designated Priority Development Areas and LOS E is the minimum acceptable service level for intersections within designated Priority Development Areas.

SCREENING CRITERIA AND THRESHOLDS OF SIGNIFICANCE

Since the City of San Leandro has not adopted VMT impact thresholds of significance, the Alameda County Transportation Commission (ACTC) VMT impact thresholds are used to evaluate VMT impacts. This is generally consistent with OPR's technical advisory, which provided recommended metrics and impact thresholds for residential, office, and retail projects, since they tend to have the greatest influence of land use projects on VMT in California (Appendix C).

Given that the project would be located in an industrial park with primarily industrial uses and other minor supporting uses, it was determined that the employment industrial threshold (VMT per employee below the Central Planning Area average) would be appropriate to apply to the project.

OPR recommends before any VMT analysis is undertaken, the project should undergo screening using the City's screening criteria to determine if it can be expected to cause a less-than-significant impact without conducting a detailed VMT study. OPR and ACTC's suggested screening criteria for projects include projects that:

1. Have less than 110 weekday daily trips;
2. Are served by high-capacity transit stops (15-minute frequency) within a half-mile of the project site; or
3. Are located in areas with below Central Planning Area average VMT per employee.

Impact Analysis

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

Trip Generation

Trip generation refers to the process of estimating the amount of vehicular traffic a project would add to the surrounding roadway system. Kittelson and Associates developed estimated project trip generation for the proposed project based on published trip generation rates from the Institute of Transportation Engineers' (ITE) publication *Trip Generation (10th Edition).* Table 27 shows the trips expected to be generated by the proposed project.

Table 27 Project Trip Generation

Vehicle Type	Daily Trips	AM Peak Hour			PM Peak Hour		
		In	Out	Total	In	Out	Total
Passenger Cars	204	25	3	**28**	3	23	**26**
2 Axle Truck	31	4	0	**4**	0	3	**3**
3 Axle Truck	20	2	0	**2**	0	2	**2**
4+ Axle Truck	74	9	1	**10**	1	8	**9**
Total Project Trips	**329**	**40**	**4**	**44**	**4**	**36**	**40**

Source: Appendix C

Roadways

Pursuant to SB 743 and CEQA Guidelines Section 15064.3, congestion on roadways is not considered a significant impact pursuant to CEQA. Additional congestion as a result of project implementation would not result in significant impacts under CEQA. While SB 743 prohibits the use of level of service or automobile delay in the determination of environmental significance, the City's General Plan Transportation Element has LOS standards that it desires to maintain, as described under *Local Regulations*. For informational purposes, a LOS analysis has been performed in accordance with City standards; this analysis is not used for the purpose of determining impacts under CEQA. According to the City of San Leandro, an adverse effect on intersection operations occurs when the analysis demonstrates that a project would cause an intersection to operate at LOS D or lower outside of Priority Development Areas. The project site is not within a Priority Development Area and would be subject to this threshold.

Table 28 shows the existing LOS of intersections near the project site and the projected LOS of these intersections with the project and other cumulative development in the project area.

Table 28 Project and Cumulative Development Intersection Level of Service

Intersection	Existing LOS		Projected Cumulative LOS		Cumulative plus Project LOS		Impact?
	AM	PM	AM	PM	AM	PM	
Washington Avenue and San Leandro Boulevard	D	D	**F**	**E**	**F**	**E**	No
Washington Avenue and 143rd Avenue	B	A	B	A	B	A	No
Washington Avenue and Halcyon Drive/Floresta Boulevard	**E**	D	**E**	D	**E**	D	No
Washington Avenue and Driveway A[1]	B	C	-	-	C	D	No
Washington Avenue and Driveway B[1]	B	B	-	-	B	B	No

Bold denotes exceeds City standard

[1] refers to the driveway in the southeast corner of the project site.

[2] refers to the driveway in the northwest corner of the project site.

Source: Appendix C

As shown above, the Washington Avenue and San Leandro Boulevard intersection would operate below LOS D during AM and PM peak hours, and the Washington Avenue and Halcyon Drive/ Floresta Boulevard intersection would operate below LOS D during AM peak hours. However, these effects to LOS at these intersections would be projected to occur without implementation of the project, and the project would negligibly contribute to LOS effects at these intersections (Appendix TRA). Therefore, the proposed project would not result in substantially adverse effects related to LOS, and the project would be consistent with the City's General Plan. Impacts would be less than significant.

Public Transit Facilities

The project would generate additional public transit trips on existing transit services near the project site. Because the project would not be expected to substantially increase vehicle traffic or vehicle speed in the existing roadway network around the project site, the project would not result in delays or interruptions to existing transit services. Due to the project's proposed warehouse use, it would be expected to generate negligible transit trips (Appendix C). The project would not include features that would conflict with City of regional plans, policies, or ordinances pertaining to public transit. No significant impacts to transit facilities would occur, and the project would not conflict with the City's General Plan.

Bicycle Facilities

An impact would occur to bicycle facilities if the proposed project were to disrupt existing bicycle facilities or be inconsistent with adopted City standards. There are several bike facilities in the vicinity of the project site, as described under *Existing Bicycle Facilities.* Because the project would not be anticipated to substantially increase vehicle traffic or vehicle speed in the existing roadway network around the project site, the bicycle level of traffic stress would not substantially change as a result of the project. Further, the project would provide one short term bicycle rack and four long term bicycle storage enclosures. The project would not include features that would be hazardous to bicycles, nor would it generate bicycle demand that would exceed the capacity of the area's bicycle network. The project would not conflict with City or regional plans, policies or ordinances pertaining to bicycle facilities or travel (Appendix C). No significant impacts to bicycle facilities would occur.

Pedestrian Facilities

An impact to pedestrian facilities would occur if the project were to disrupt existing pedestrian facilities or be inconsistent with pedestrian system plans, guidelines, or policies. Because the project would not be anticipated to substantially increase vehicle traffic or vehicle speed in the existing roadway network around the project site, the pedestrian facilities in the project site vicinity would not be substantially diminished as a result of the project. The project would include several pedestrian improvements to the site including lighting, internal sidewalks, improved landscaping, and pedestrian amenities. Adequate street lighting would be provided by additional proposed street lighting and internal lighting on the project site. Therefore, no impact to pedestrian facilities would occur.

Table 29 below describes project consistency with applicable policies from the San Leandro General Plan Transportation Element.

Table 29 Project Consistency with General Plan Transportation Element

Policy	Consistency
Policy T-1.2. Mitigation of Development Impacts. Require developers to address the impacts that their projects will have on the City's transportation system. A variety of mitigation measures, including impact fees, street improvements, traffic signal and Intelligent Transportation Systems (ITS) improvements, transportation demand management (TDM) measures, and improvement of non-automobile transportation modes, should be considered.	**Consistent.** The project applicant would be required to pay development impact fees pursuant to Chapter 7-11 of the SLMC.
Policy T-1.10. Reduced Trip Generation. Encourage local employers to develop programs that promote ridesharing, flextime and telecommuting, bicycle use, and other modes of transportation that reduce the number and distance of vehicle trips generated.	**Consistent.** The project would include bicycle parking spaces and would be located near public transit stops, which would encourage alternative modes of transportation. Additionally, as discussed under *Roadways,* the project would not generate a number of trips that would adversely affect the LOS of intersections near the project site.
Policy T-2.6. Building Design and Site Planning. Ensure that the site planning and design of new development promotes the use of non-auto modes of transportation by including amenities such as sidewalks, bike lockers, and bus shelters.	**Consistent**. The project would include 14 bicycle parking spaces and improved sidewalks.
Policy T-3.5. Accommodation of Bicycles and Pedestrians. Require new development to incorporate design features that make walking, bicycling, and other forms of nonmotorized transportation more convenient and attractive. Facilities for bicycles and pedestrians, including secured bicycle parking, clearly marked crosswalks, well-lit streets and sidewalks, landscaping, and street furniture should be provided within new employment areas, shopping destinations, multi-modal transportation facilities, and community facilities.	**Consistent**. The project would include 14 bicycle parking spaces, maintaining existing sidewalks, and exterior lighting to accommodate bicycles and pedestrians.
Policy T-6.7. Siting of Businesses with Truck Traffic. To the extent feasible, locate businesses projected to generate large amounts of truck traffic away from residential areas. Ingress and egress for such businesses should be designed to minimize the possibility of truck traffic impacting residential streets**.**	**Consistent**. As shown in Table 27, the project would generate approximately 125 truck trips per day. The project site would utilize the two existing driveways for ingress and egress, and truck docks would be located at the rear of the warehouse structure, which would minimize truck traffic impacts on Washington Avenue. The rear parking lot and truck docking stations would also be shielded by an existing sound wall.

Source: City of San Leandro 2016a

The project would be consistent with the San Leandro General Plan Transportation Element. Impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

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

As described under *Setting*, *CEQA Guidelines* Section 15064.3 identifies VMT as the most appropriate criteria to evaluate a project's transportation impacts. As described under *Screening Criteria and Thresholds of Significance,* the project must be consistent with ACTC screening criteria in order to assume that VMT impacts would be less than significant.

A project in the Central Planning Area with below-average VMT per employee would be consistent with ACTC VMT screening criterion number three, listed under *Screening Criteria and Thresholds of Significance.* The project site is located in the Central Planning Area, which has an average VMT per employee of 19.2. Therefore, the VMT reduction target for the Central Planning Area is 16.3 VMT per employee (15 percent below 19.2). The project site is located within an ACTC transportation analysis zone with an average VMT per employee of 15.23 (truck trips are considered be a part of the total VMT for the area meaning this VMT analysis addressed the full area over which the project would affect travel behavior in two scenarios, with and without the project [OPR 2018]) (Appendix C). Therefore, the project would be located in an area with below-average VMT per employee in the Central Planning Area and would be consistent with ACTC screening criterion number three. A detailed VMT analysis is not required, and the project can be assumed to have less-than-significant impacts related to VMT.

LESS-THAN-SIGNIFICANT IMPACT

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

Vehicle access to the project site would be available via two existing two-way driveways on Washington Avenue, located in the southeast and northeast corners of the project site. A total of 64 vehicle parking spaces would be provided, located along the northern, southern, and western sides of the proposed warehouse structure. Emergency vehicles would be able to enter the project site via either driveway and, if necessary, circulate through the parking lot on the southern side of the proposed warehouse to turn around or exit via the other driveway. Pedestrian access to the project site would be provided via concrete sidewalks along all sides of the proposed structure, except alongside the 15 dock doors. These sidewalks would lead to exterior stairwells and entryways. Pedestrian access to the warehouse would be provided via seven pedestrian doors. The project would not involve geometric design features or incompatible uses that would substantially increase hazards at the project site. Impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

d. Would the project result in inadequate emergency access?

The project would not require lane or road closures during construction. During operation, emergency access to the project site would be available via the two existing two-way driveways that provide access to Washington Avenue. The parking lot is adjacent to the proposed warehouse and would provide adequate emergency access to the structure. If necessary, emergency vehicles would be able to circulate through the parking lot to make a U-turn or turn through the swing gates to turn around and exit onto Washington Avenue. The project would provide adequate emergency access, and impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

18 Tribal Cultural Resources

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

Regulatory Setting

Assembly Bill 52

As of July 1, 2015, California Assembly Bill 52 of 2014 (AB 52) was enacted and expands CEQA by defining a new resource category, "tribal cultural resources." AB 52 establishes 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" (PRC Section 21084.2). It further states that the lead agency shall establish measures to avoid impacts that would alter the significant characteristics of a tribal cultural resource, when feasible (PRC Section 21084.3).

PRC Section 21074 (a)(1)(A) and (B) defines tribal cultural resources as "sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe" and is:

1. 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
2. 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 these criteria, the lead agency shall consider the significance of the resource to a California Native American tribe.

AB 52 establishes a formal consultation process for California Tribes regarding those resources. The consultation process must be completed before a CEQA document can be certified. Under AB 52, lead agencies are required to "begin consultation with a California Native American Tribe that is traditionally and culturally affiliated with the geographic area of the proposed project." Native American tribes to be included in the process are those that have requested notice of projects proposed within the jurisdiction of the lead agency.

On June 7, 2022, the City of San Leandro, pursuant to Public Resources 21080.3.1 and AB 52, sent via email and a certified mail notification letter to the following tribes:

- Amah Mutsun Tribal Band of Mission San Juan Bautista
- Costanoan Rumsen Carmel Tribe
- Indian Canyon Mutsun Band of Costanoan
- Muwekma Ohlone Indian Tribe of the San Francisco Bay Area
- The Ohlone Indian Tribe
- Wuksache Indian Tribe/Eshom Valley Band
- The Confederated Villages of Lisjan Nation
- North Valley Yokuts Tribe

One response was received from the Confederated Villages of Lisjan Nation, which stated the tribe had no further information or comments regarding the proposed project. No other tribal consultation responses were received, and consultation was deemed complete on July 7, 2022.

Impact Analysis

a. Would the project cause a substantial adverse change in the significance of a tribal cultural resource as defined in Public Resources Code Section 21074 that is listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k)?

b. Would the project cause a substantial adverse change in the significance of a tribal cultural resource as defined in Public Resources Code Section 21074 that is 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?

As described in Section 5, *Cultural Resources,* neither the cultural resources records search nor Sacred Lands File search identified cultural resources listed on or eligible for listing on the CRHR or a local register within the project site. However, there is always potential to uncover buried archaeological and tribal cultural resources during ground disturbing activities, which could potentially be considered tribal cultural resources eligible for listing in the CRHR or a local register or be considered tribal cultural resources. Should project construction activities encounter and damage or destroy a tribal cultural resource or resources, impacts would be potentially significant. Implementation of Mitigation Measure TCR-1 would be required.

Mitigation Measures

TCR-1 Unanticipated Discovery of Tribal Cultural Resources

In the event that cultural resources of Native American origin are identified during project construction, all earth-disturbing work within 50 feet of the find shall be temporarily suspended or redirected until an archaeologist has evaluated the nature and significance of the find as a cultural resource and an appropriate local Native American representative is consulted. If the City, in consultation with local Native American tribes, determines that the resource is a tribal cultural resource and thus significant under CEQA, a mitigation plan shall be prepared and implemented in accordance with state guidelines and in consultation with local Native American group(s). The plan shall include avoidance of the resource or, if avoidance of the resource is infeasible, the plan shall outline the appropriate treatment of the resource in coordination with the appropriate local Native American tribal representative and, if applicable, a qualified archaeologist. The plan shall include measures to ensure the find is treated in a manner that respectfully retains, to the degree feasible, the qualities that render the resource of significance to the local Native American group(s). Examples of appropriate mitigation for tribal cultural resources include, but are not limited to, protecting the cultural character and integrity of the resource, protecting traditional use of the resource, protecting the confidentiality of the resource, or heritage recovery.

Significance After Mitigation

Implementation of Mitigation Measure TCR-1 would minimize impacts to tribal cultural resources encountered during project construction. Impacts would be less than significant with mitigation incorporated.

LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED

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19 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?	☐	☐	■	☐

Setting

Potable Water

Water service to the City of San Leandro is provided by the East Bay Municipal Utility District (EBMUD), a public utility. EBMUD is responsible for service connections and water delivery to most of Alameda County and much of Contra Costa County. San Leandro comprises about 6 percent of the EMBUD's customer base and uses about 5 percent of its water. As discussed in Section 10, *Hydrology and Water Quality,* approximately 90 percent of the EBMUD water supply originates from the Sierra Nevada via the Mokelumne River watershed, with the other 10 percent sourced from

runoff on East Bay Area watershed lands. Water delivered to San Leandro customers is treated at the Orinda or Upper San Leandro water treatment plants (EBMUD 2021).

Each water district adopts an Urban Water Management Plan (UWMP), which is a long-range planning document used to assess current and projected water usage, water supply planning and conservation and recycling efforts. The EBMUD adopted a 2020 UWMP and a 2020 Water Shortage Contingency Plan which determined that under base condition assumptions, EBMUD can meet customer demand out to 2050 during normal years and single dry years; however, during multi-year droughts, even with customer demand reduction measures in place, EBMUD will need to obtain supplemental supplies to meet customer demands (EBMUD 2021). Projections are summarized across the different water supply scenarios through the year 2050 in Table 30.

Table 30 EBMUD Normal and Dry Year Supply and Demand Comparison 2020-2050

EBMUD Planning Level of Demand	2020	2025	2030	2035	2040	2045	2050
Normal Year							
Mokelumne Supply (mgd)	>181	>186	>190	>194	>201	>209	>218
Demand (taf)	181	186	190	194	201	209	218
Need for Water (taf)	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Single Dry Year							
Mokelumne Supply (mgd)	121	126	129	132	138	144	151
CVP Supplies (mgd)	60	60	60	60	60	60	60
Total Supplies (mgd)	181	186	189	192	198	204	211
Voluntary Rationing (%)	0	0	1	1	2	2	3
Need for Water (taf)	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Second Dry Year							
Mokelumne Supply (mgd)	82	86	89	92	98	104	111
CVP Supplies (mgd)	74	74	74	74	74	74	74
Total Supplies (mgd)	156	161	164	167	172	178	185
Mandatory Rationing (%)	13	13	13	14	14	14	15
Need for Water (taf)	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Third Dry Year							
Mokelumne Supply (mgd)	141	145	146	145	132	118	105
CVP Supplies (mgd)	12	12	12	12	12	12	12
Total Supplies (mgd)	153	157	158	157	144	130	117
Mandatory Rationing (%)	15	15	15	15	15	15	15
Need for Water – Base Condition (taf)	0	0	0	0	28	52	75
Need for Water – High Demand Scenario (taf)	**0**	**0**	**21**	**35**	**60**	**97**	**125**
Need for Water – Extreme Drought Scenario (taf)	**0**	**0**	**0**	**13**	**32**	**55**	**84**

mgd = million gallons per day
taf = thousand acre-feet
CVP = Central Valley Project
Source: EBMUD 2021

EBMUD distributes its water through a system of pipelines, storage reservoirs, water treatment plants, and pumping plants Within the EBMUD service area, the water distribution network includes 4,200 miles of pipe, 167 water distribution reservoirs, and 131 water pumping plants. EBMUD's water supply system delivers 325 mgd to its 1.4 million customers and has a capacity of 830 million gallons (EBMUD 2021, City of San Leandro 2016b).

There are currently no major water storage facilities in San Leandro. Rather, the city is served by nearby facilities in Castro Valley and Oakland, including the Dunsmuir Reservoir just outside the northeastern city limits. Pipelines in San Leandro range from 4 to 36 inches in diameter. EBMUD operates and maintains all water distribution lines within the city and is responsible for all facilities up to the location of the water meter (City of San Leandro 2016b).

Wastewater

The city's sewer system consists of approximately 130 miles of pipe, ranging from 6 inches to 42 inches in diameter, and 13 remote lift stations. The City maintains roughly two thirds of the sewers within the city limits, primarily serving the northern portion of the city. The remainder of the city, including the project site, is served by the Oro Loma Sanitary District (OLSD).. The San Francisco RWQCB established wastewater treatment requirements for the OLSD wastewater treatment plant and the EBDA outfall in an NPDES Permit (Order No. R2-2012-0004), adopted in 2012. The NPDES Order sets a framework for operation of the plant and effluent from the plant (City of San Leandro 2016b).

The OLSD serves a population of approximately 141,000, which includes residents and businesses. OLSD and Castro Valley Sanitary District jointly own OLSD's treatment plant, which has a permitted capacity of 20 mgd and treats an average dry weather flow of 12 mgd (OLSD 2022).

Stormwater

The City of San Leandro Department of Public Works owns and maintains 175 miles of storm drain conduits throughout the city. The city's storm drain system feeds into a larger system owned and operated by the Alameda County Flood Control and Water Conservation District. Stormwater from the project site drains west to Washington Avenue, where it is collected by storm drains into the City's stormwater system. Stormwater runoff is collected and disposed of by an integrated system of storm drains, inlets, curbside gutters, catch basins, drainage ditches, and man-made channels. Ultimately, stormwater that enters the City's system drains to the San Francisco Bay (City of San Leandro 2022).

Solid Waste

The City of San Leandro has two distinct service areas for refuse and recycling services: San Leandro Sanitary District and Oro Loma Sanitary District. The two service providers that serve these areas are Alameda County Industries (City's franchisee) and Waste Management of Alameda County (OLSD's franchisee). As of 2019, the City's solid waste was sent to seven landfills, as summarized below in Table 31. About 81 percent of San Leandro's solid waste was sent to the Altamont Landfill Resource Recovery Facility and the Vasco Road Sanitary Landfill (CalRecycle 2019).

Table 31 Estimated Landfill Capacities and Closure Date

Landfill Facility	Permitted Capacity (cubic yards)	Remaining Capacity (cubic yards)	Maximum Permitted Throughput (tons per day)	Anticipated Closure Date
Altamont Landfill Resource Recovery Facility	124,400,000	65,400,000	11,150	2070
Fink Road Landfill	14,640,000	7,184,701	2,400	2023[1]
North County Landfill and Recycling Center	41,200,000	35,400,000	825	2048
Potrero Hills Landfill	83,100,000	13,872,000	4,330	2048
Recology Hay Road Landfill	37,000,000	30,433,000	2,400	2077
Redwood Landfill	26,077,000	26,000,000	2,300	2036
Vasco Road Sanitary Landfill	40,207,100	11,560,000	2,518	2051

CalRecycle identifies Maximum Permitted Throughput only in Tons/Day, while Maximum Permitted Capacity and Remaining Capacity are only provided in Cubic Yards; therefore, standard conversion factors provided by the EPA (U.S. EPA 2016) are used to provide all figures in both Tons and Cubic Yards. EPA identifies a standard conversion factor for Municipal Solid Waste (MSW) compacted to "Landfill Density" of 1,700 pounds per cubic yard, equating to approximately 0.8 ton per cubic yard of compacted MSW.

[1] Fink Road Landfill has an estimated cease operation date of December 1, 2023

Source: United States Environmental Protection Agency 2016

Source: CalRecycle 2019

Other Utilities

Electricity would be provided to the project site by EBCE via Pacific Gas and Electric Company (PG&E) infrastructure. Infrastructure capable of supporting electric and telecommunications is present at the project site and in the project vicinity.

Regulatory Setting

State

CALIFORNIA GREEN BUILDING STANDARDS CODE

In January 2020, the state of California adopted CalGreen that establishes mandatory green building standards for all buildings in California. The code covers five categories: planning and design, energy efficiency, water efficiency and conservation, material conservation and resource efficiency, and indoor environmental quality. These standards include a mandatory set of guidelines, as well as more rigorous voluntary measures, for new construction projects to achieve specific green building performance levels.

- Reducing indoor water use by 20 percent
- Reducing wastewater by 20 percent
- Recycling and/or salvaging 50 percent of nonhazardous construction and demolition debris
- Providing readily accessible areas for recycling by occupant

ASSEMBLY BILL (AB) 939

The California Integrated Waste Management Act (AB 939, Sher, Chapter 1095, Statutes of 1989 as amended [IWMA]) made all California cities, counties, and approved regional solid waste management agencies responsible for enacting plans and implementing programs to divert 25 percent of their solid waste by 1995 and 50 percent by year 2000. Later legislation mandates the 50

percent diversion requirement be achieved every year. The California Department of Resources Recycling and Recovery (CalRecycle) oversees and provides assistance to local governments as they develop and implement plans to meet the mandates of the IWMA and subsequent legislation.

City of San Leandro

SAN LEANDRO 2035 GENERAL PLAN

The following policies of the City's General Plan are related to the provision of utilities and service systems in San Leandro:

Policy CSF-6.2 **Fair Share Costs.** Require future development to pay its fair share of the cost of improving the water, sewer, storm drainage, and other infrastructure systems needed to serve that development. Development impact fees, development agreements, and other appropriate forms of mitigation should be used to cover the costs of upgrading or expanding public infrastructure.

Policy CSF-6.4 **Wastewater Collection and Treatment.** Maintain efficient, environmentally sound, and cost-effective wastewater collection and treatment services in San Leandro.

Policy CSF-6.5 **Capacity.** Maintain adequate capacity at the San Leandro wastewater treatment plant to accommodate projected levels of growth within the service area and encourage the Oro Loma Sanitary District to do the same. Support efforts to maintain and/or improve the high quality of treated effluent at both plants and increase the feasibility and cost-effectiveness of using recycled wastewater for non-potable purposes.

SAN LEANDRO STORMWATER MANAGEMENT AND DISCHARGE CONTROL ORDINANCE

The City of San Leandro manages stormwater and regulates discharge into storm drains through a Storm Water Management and Discharge Control Ordinance. The City adheres to the SWRCB requirements for permitting for specific types of industrial and construction activities, such as obtaining a NPDES permit prior to construction.

Impact Analysis

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

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

Water

The project would increase future water demand at the project site. The estimated water usage for project operation would be approximately 252,700 gallons per year. This estimation is based on

water duty factors of 15 gallons per square foot of office space per year and 3.4 gallons per square foot of warehouse space per year (US Energy Information Administration 2017).[8]

252,700 gallons per year equates to less than 0.01 mgd, which would represent less than 0.01 percent of projected EBMUD water supplies across normal, single dry, and multiple dry years. As determined in the EBMUD UWMP, there is adequate water supply available to serve anticipated growth within Alameda County through the year 2050. Additionally, the project applicant was provided a Will Serve Letter from EBMUD on October 7, 2021. EBMUD adopted a 2020 Water Shortage Contingency Plan which aims to protect the water supply in the event of an emergency such as a drought or earthquake, and to implement and enforce regulations and restrictions for managing a water shortage (EBMUD 2020b). Additionally, EBMUD provided water to the project site's land uses prior to their demolition and water infrastructure exists to serve the site. Therefore, the project would represent a negligible net increase in water demand at the project site. The project would not require or result in the relocation or construction of new or expanded water facilities, and the project would have sufficient water supplies available to serve the project during normal, dry, and multiple dry years. Impacts would be less than significant.

Wastewater

Conservatively assuming that the project's sewer flow would be 100 percent of its anticipated water use, the project would generate approximately 252,700 gallons of wastewater per year. The project would be served by OLSD and would have a connection to the OLSD sewer system, which directs wastewater to the treatment plant jointly owned by OLSD and Castro Valley Sanitary District. The treatment plant has a permitted capacity of 20 mgd, and treats an average dry weather flow of 12.4 mgd (OLSD 2022). Therefore, the OLSD treatment plant has approximately 7.6 mgd of remaining capacity.

The 252,700 gallons of wastewater per year generated by the project equates to approximately 0.25 million gallons per year, or less than 0.001 mgd. This daily wastewater generation rate would represent less than 0.01 percent of the OLSD treatment plant's remaining capacity. Additionally, the project applicant would be required to submit a sanitary sewer plan to the District for approval, and obtain an OLSD district permit prior to connecting to the OLSD sewer system. The project would not require or result in the relocation or construction of new or expanded wastewater facilities, and would be served by a wastewater treatment provider with adequate capacity for the project's projected demand. Impacts would be less than significant.

Stormwater

The project would continue to connect to the existing storm drain system operated and maintained by the City of San Leandro. As discussed in Section 10, *Hydrology and Water Quality,* the project would decrease the amount of impervious surfaces at the project site compared to existing conditions, so that the amount of runoff would decrease. The bioretention treatment areas within proposed project landscaping would collect and facilitate recharge of stormwater on the project site. Additionally, the project would also be required to comply with NPDES permit requirements and C.3 Stormwater Guidelines. Impacts would be less than significant.

[8] 15 gallons per square foot of office space per year, multiplied by 5,000 square feet of office space, equals 75,000 gallons per year. 3.4 gallons per square foot of warehouse space per year, multiplied by 52,269 square feet of office space, equals approximately 177,700 gallons per year. 177,700 gallons per year plus 75,000 gallons per year equals approximately 242,700 gallons per year.

Electricity, Natural Gas, and Telecommunications

As discussed in Section 6, *Energy*, the project would not result in the wasteful, inefficient, or unnecessary consumption of energy. In addition, the project would not require the construction of new electric power, natural gas, or telecommunications facilities because it is located in an urban area already served by those utilities and would not require additional capacity.

Therefore, the project would not result in significant environmental impacts due to the construction of new utility facilities. Impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

d. Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

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

The proposed project would generate solid waste during construction and operation. During construction, the current CalGreen code would require that 65 percent of construction and demolition debris be diverted. Because the existing structures on the project site were destroyed by a fire, demolition of remaining structures was undertaken by the City under emergency safety permits. Handling of debris and waste generated during construction would be subject to CalGreen requirements and Chapter 3-7 of SLMC, which would require the project applicant to submit a Debris Recycling Statement. This statement would require the applicant to report the estimated volume or weight of construction debris, the amount of debris that was diverted via reuse or recycling, and information regarding the facility the applicant proposed to use to salvage, collect, or receive diverted material. Therefore, the project would not impair the attainment of solid waste reduction goals.

Operation of the project would generate an estimated 775 pounds of solid waste per day. This estimation is based on solid waste generation rates provided by CalRecycle, which estimate that office uses generate 6 pounds of solid waste per 1,000 square feet per day and warehouse uses generate 1.42 pounds per 100 square feet per day (CalRecycle 2015).[9] The generated 775 pounds of solid waste per day would equate to 0.07 tons per day or 142 tons per year.

Solid waste from the project site would be collected by Waste Management of Alameda County and likely sent to the Altamont Landfill Resource Recovery Facility. Table 32 shows the project's estimated solid waste generation and the remaining capacity of these landfills (CalRecycle 2019).

Table 32 Generated Solid Waste and Estimated Landfill Capacity

Project Solid Waste Generation (tons/day)	Permitted Throughput of Altamont (tons/day)	Remaining Capacity of Altamont (cubic yards)
0.07	11,150	65,400,000

Source: CalRecycle 2019

[9] 6 pounds per 1,000 square feet of office space per day, multiplied by 5,000 square feet of office use, is 30 pounds of solid waste generated per day by office uses. 1.42 pounds per 100 square feet of warehouse space per day, multiplied by 52,269 square feet of warehouse use, is approximately 745 pounds per day. 30 pounds plus 745 pounds is approximately 775 pounds of solid waste generated by the project per day.

Project generated waste would be less than 0.01 percent of Altamont Landfill's allowable waste limit and less than 0.01 percent of Altamont Landfill's remaining capacity. The project would be required to comply with City and State plans and policies to reduce solid waste generation, including a requirement to divert at least 50 percent of solid waste and recyclables as required by Assembly Bill 939. The project's incremental increase in solid waste would not adversely affect solid waste facilities. Impacts would be less than significant.

LESS-THAN-SIGNIFICANT IMPACT

20 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 downslopes or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☐	■

Setting

According to maps prepared by the California Department of Forestry and Fire Protection (CAL FIRE), most of San Leandro is within a Local Responsibility Area and is not located within a Fire Hazard Severity Zone. However, small portions of the city along its eastern border are classified as Very High Fire Hazard Severity Zones within Local Responsibility Areas (CAL FIRE 2006). The project site is not within a Fire Hazard Severity Zone and is located approximately one mile west of the nearest Very High Fire Hazard Severity Zone.

Impact Analysis

a. If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project substantially impair an adopted emergency response plan or emergency evacuation plan?

b. If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project due to slope, prevailing winds, and other factors, exacerbate wildfire risks and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

c. If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

d. If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project expose people or structures to significant risks, including downslopes or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

The project site is not in a CAL FIRE designated Very High Fire Hazard Severity Zone and is located approximately 1.2 miles west of the nearest Very High Fire Hazard Severity Zone (CALFIRE 2006). The project site is separated from the nearest Very High Fire Hazard Severity Zone by urban development, which does not facilitate the spread of wildfire. Additionally, the prevailing wind direction in San Leandro is west to east for nine months of the year and from north to south for three months of the year (WeatherSpark 2022); therefore, prevailing winds would blow wildfires away from the project site and from the city.

Project implementation would not impair an adopted emergency response plan or emergency evacuation plan, as discussed in Section 9, *Hazards and Hazardous Materials,* or exacerbate wildfire risks. Further, the project would not require the installation or maintenance of associated infrastructure that may exacerbate fire risk or expose people or structures to significant risks, including downslopes or downstream flooding or landslides, as a result of runoff, post fire slope instability, or drainage changes in or near state responsibility areas or lands classified as very high fire severity zones. No impact would occur.

NO IMPACT

21 Mandatory Findings of Significance

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less-than-Significant Impact	No Impact
Does the project:				
a. 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. Have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	□	■	□	□
c. 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?

As discussed in Section 4, *Biological Resources*, the project would not substantially reduce the habitat of a fish or wildlife species; cause a fish or wildlife species population to drop below self-sustaining levels; threaten to eliminate a plant or animal community; or reduce the number or restrict the range of a rare or endangered plant or animal. The project could result in potentially significant impacts to nesting birds or roosting bats. Implementation of mitigation measures BIO-1 and BIO-2 would reduce impacts to protected birds and bats to less than significant levels.

As discussed in Section 5, *Cultural Resources*, and Section 7, *Geology and Soils,* no historical, archaeological, or paleontological resources were identified on site. Additionally, as discussed in Section 18, *Tribal Cultural Resources,* there are no known tribal cultural resources within the project site. Nevertheless, it is always possible to encounter cultural, paleontological, or tribal cultural resources during ground disturbing activities. Implementation of mitigation measures CR-1, GEO-1, and TCR-1 would reduce impacts to previously undiscovered cultural, tribal cultural resources, and paleontological resources to less than significant levels by providing a process for evaluating and, as necessary, avoiding impacts to any resources found during construction. Therefore, impacts to important examples of California history or prehistory would be less than significant.

As noted throughout the Initial Study, other potential environmental impacts related to the quality of the environment would be less than significant.

LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED

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

As described in Sections 1 through 20, the project would not result in significant and unmitigable impacts to the environment with respect to all environmental issues. This is largely because project construction activities would be temporary, and construction and operational activities and would not significantly alter the environmental baseline condition.

As defined in *CEQA Guidelines* Section 15335, "cumulative impacts" refer to two or more individual impacts that, when considered together, are substantial or will compound other environmental impacts. Cumulative impacts are the changes in the environment that result from the incremental impact of development of the proposed project when added to other closely related past, present and reasonably foreseeable probable future nearby projects. If a significant cumulative impact is identified, it must then be determined whether the project's contribution to that impact would be cumulatively considerable. Cumulative impacts could occur if the construction of other projects occurred recently, at the same time as the proposed project or is proposed in the near future, and in the same geographic scope, such that the effects of similar impacts of multiple projects combine to create greater levels of impact than would occur at the project-level. For example, if the construction of other projects in the area occurs at the same time as project activities, combined air quality and noise impacts may be greater than at the project-level.

Seven planned development projects are in the vicinity of the project site, which are summarized in Table 33. The exact implementation timing of these projects is not known at this time; therefore, it is conservatively assumed that construction of these planned projects could overlap with construction of the proposed project.

Table 33 Cumulative Development Projects

No.	Project Name	Project Location	Project Components	Status
1	B22-1812	14347 Washington Avenue, 800 feet southeast of project site	Removal of two underground storage tanks (10,000 gallons and 2,000 gallons)	Under consideration by the City
2	B22-1409	14240 Rose Drive, 0.4 mile northeast of project site	Construction of 740 square foot accessory dwelling unit	Under consideration by the City
3	B21-2359	1530 146th Avenue, 0.7 mile northeast of project site	Construction of 800 square foot accessory dwelling unit	Under consideration by the City
4	B21-1360	2483 Washington Avenue, 0.5 mile north of project site	Demolition of shed, reconfiguration of parking lot, and remodeling of commercial structure	Building permits issued
5	B22-1730	2274 Washington Avenue, 0.7 mile north of project site	Residential conversion and renovation	Under consideration by the City
6	B22-1470	2824 Halcyon Drive, 0.5 mile southeast of project site	Construction of 1,678 square foot single family residence	Under consideration by the City
7	B22-1832	854 Portola Drive, 0.5 mile southwest of project site	Trenchless installation of sewer lateral replacement from residence to main line in street	Approved by the City

Source: Cit of San Leandro 2022

Construction impacts are primarily temporary, localized effects. Therefore, the potential for the project to contribute to cumulative impacts would be limited to the infrequent periods of project activities and the following issue areas:

- **Air Quality.** Because the San Francisco Bay Area Air Basin currently exceeds the federal ozone and $PM_{2.5}$ standards and the state ozone, PM_{10}, and $PM_{2.5}$ standards, cumulative air quality impacts currently exist for these pollutants. As discussed in Section 3, *Air Quality*, project construction activities would not generate emissions of air pollutants exceeding BAAQMD significance thresholds, which are intended to assess whether a project's contribution to existing cumulative air quality impacts is considerable. Therefore, the project's contribution to cumulative air quality impacts would not be cumulatively considerable.
- **Biological Resources.** Most cumulative impacts to biological resources occur when a disproportionate number of development projects occur at once and regionally impact a local population of a special status species, riparian habitat, sensitive natural communities, wetlands, or other locally protected biological resources. In this case, all cumulative projects would occur within previously developed areas, and would not be anticipated to result in significant impacts to special status plant and wildlife species or sensitive natural communities. Additionally, the proposed project would be required to implement mitigation measures BIO-1 and BIO-2 to reduce its impacts to biological resources to a less-than-significant level such that project-level impacts would not result in a cumulatively considerable impact to biological resources.
- **Cultural and Tribal Cultural Resources.** Cumulative development in the region would continue to disturb areas with the potential to contain cultural and tribal cultural resources. The cumulative development projects have undergone or would be required to undergo CEQA review, which would determine the extent of potential cultural and tribal cultural resources impacts and mitigate those impacts appropriately. If these cumulative projects would result in impacts to known or unknown cultural or tribal cultural resources, impacts to such resources would be addressed on a case-by-case basis. Given the uncertainty in the extent of impacts

associated with these projects, this analysis conservatively assumes a significant cumulative impact to cultural and tribal cultural resources would occur. Nevertheless, the proposed project would be required to implement mitigation measures CR-1 and TCR-1 to reduce its impacts to cultural and tribal cultural resources to a less-than-significant level such that project-level impacts would not result in a cumulatively considerable contribution to this cumulative impact.

- **Greenhouse Gas Emissions.** GHG emissions and climate change are, by definition, cumulative impacts. As discussed in Section 8, *Greenhouse Gas Emissions*, the adverse environmental impacts of cumulative GHG emissions are already occurring. As a result, cumulative impacts related to GHG emissions are significant. Thus, the issue of climate change involves an analysis of whether a project's contribution towards an impact is cumulatively considerable. As discussed in Section 8, *Greenhouse Gas Emissions*, project emissions would be below the identified threshold of significance and therefore would not be cumulatively considerable.
- **Hazards and Hazardous Materials.** Similar to the proposed project, cumulative projects would be required to comply with regulations applicable to the use, disposal, and transportation of hazardous materials during construction activities, and compliance with applicable regulations would reduce potential cumulative impacts to less-than-significant levels. With respect to the use and accidental release of hazardous materials in the environment at construction, effects are generally limited to site-specific conditions. As part of project approval for the cumulative projects, the City would assess the need for fire protection services, which would inform efforts to improve or expand needed facilities. Cumulative development would comply with emergency access requirements as directed by respective city and fire department regulations. Therefore, cumulative impacts related to hazards and hazardous materials would be less than significant.
- **Noise.** Overlapping construction activities associated with cumulative development projects in conjunction with proposed project activities could result in cumulative noise impacts related to a temporary increase in ambient noise levels at the same noise-sensitive receivers located throughout the area, especially during construction activities. However, similar to the proposed project, cumulative development projects would be subject to compliance with the noise level limits established in SLMC Chapter 4-1. Therefore, cumulative construction noise impacts would be less than significant. Although there could be other cumulative projects simultaneously under construction near construction of the proposed project, the potential for construction groundborne vibration and noise impacts is within relatively close distances (e.g., within approximately 25 feet for a vibratory roller). Since no two construction cumulative projects would both be within 25 feet of a given sensitive structure, cumulative groundborne vibration and noise impacts would be less than significant.
- **Public Services.** Cumulative developments would be required to comply with the California Fire Code, Part 9 of the CBC and would follow standards for fire safety such as fire flow requirements for buildings, fire hydrant location and distribution criteria, automated sprinkler systems, and fire-resistant building materials. For these reasons, the cumulative projects would not result in the need to construct new or expand existing fire protection or emergency medical services facilities beyond those anticipated for expected population growth. Therefore, the cumulative impact related to fire protection facilities would be less than significant. Cumulative plans and projects within the service area of the SLPD would be reviewed for impacts on police protection services, would be required to address any potential impacts with mitigation, and would need to provide adequate emergency access for police services with proper signage and lighting. Because demand for law enforcement services is highly dependent on a number of factors that vary substantially by project (clientele, hours of operation, crime prevention measures, etc.), it is unlikely that there would be substantial overlap in demand that would result such that new

facilities are necessary. The cumulative impact related to police protection facilities would be less than significant. Cumulative projects would be required to pay development impact fees towards school operation which, pursuant to Section 65995(3)(h) of the California Government Code (Senate Bill 50, chaptered August 27, 1998), are "deemed to be full and complete mitigation of the impacts of any legislative or adjudicative act, or both, involving, but not limited to, the planning, use, or development of real property, or any change in governmental organization or reorganization." Therefore, the cumulative impact related to school facilities would be less than significant.

- **Transportation.** Overlapping construction schedules associated with cumulative development projects in conjunction with proposed project activities could result in cumulative transportation impacts. Similar to the proposed project, cumulative projects would be required to be consistent with VMT screening criteria or complete a VMT analysis, and also be consistent with LOS standards established by the City's General Plan. The proposed project would not result in significant impacts related to VMT or significant adverse effects related to LOS. Therefore, cumulative transportation impacts would be less than significant.
- **Utilities and Service Systems.** Operation of cumulative development projects in conjunction with proposed project activities could result in cumulative utilities impacts. Similar to the proposed project, cumulative projects would be required to undergo individual environmental review for potential impacts to existing utilities that serve the City of San Leandro. The project would not require or result in the relocation or construction of new or expanded water facilities, and the project would have sufficient water supplies available to serve the project during normal, dry, and multiple dry years. The project would not require or result in the relocation or construction of new or expanded wastewater facilities, and would be served by a wastewater treatment provider with adequate capacity for the project's projected demand. The project would not require the construction of new electric power, natural gas, or telecommunications facilities because it is located in an urban area already served by those utilities and would not require additional capacity. Therefore, cumulative utilities impacts would be less than significant.

Based on this information, the proposed project would not result in a cumulatively considerable contribution to a significant cumulative impact with mitigation incorporated.

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

In general, impacts to human beings are associated with air quality, hazards and hazardous materials, and noise impacts. As discussed in Section 3, *Air Quality,* the project would implement Mitigation Measure AQ-1, which would require implementation of BAAQMD Basic Construction Mitigation Measures related to architectural coatings and construction fugitive dust. As discussed in Section 9, *Hazards and Hazardous Materials*, impacts related to groundwater, vapor, or soil contamination would not be significant as a result of project implementation with Mitigation Measure HAZ-1 and would not have a cumulatively considerable contribution to significant cumulative hazards impacts. As discussed in Section 13, *Noise*, the project would not have significant noise impacts in construction or operation. Therefore, the project would not cause substantial adverse effects on human beings with implementation of applicable mitigation measures.

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Appendix A

Arborist Report

Preliminary Arborist Report

14143-14273 Washington Avenue
San Leandro, CA

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February 2022

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Preliminary Arborist Report

14143-14273 Washington Avenue
San Leandro, CA

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Attachments

Tree Assessment Map

Tree Assessment Form

Introduction and Overview

First Industrial Realty Trust, Inc. is planning the redevelopment of 14143-14273 Washington Avenue in San Leandro, CA. The site is currently a mix of commercial and residential buildings with associated parking lots and landscapes. HortScience | Bartlett Consulting was asked to prepare a **Preliminary Arborist Report** for the site as part of the application to the City of San Leandro. This report is preliminary because plans provided were conceptual in nature and did not include accurate trunk or canopy locations. In addition, grading, drainage, stormwater, utility and landscape plans that could impact trees have yet to be prepared and were not reviewed for this report.

This report provides the following information:

1. Assessment of the health and structural condition of the trees within the proposed project area based on a visual inspection from the ground.
2. Evaluation of the impacts to trees based on development plans.
3. Guidelines for tree preservation during the design, construction and maintenance phases of development.

Tree Assessment Methods

Trees were assessed on January 10, 2022. The assessment included all trees 6" and greater, located within and adjacent to the project area. There were no offsite trees. The assessment procedure consisted of the following steps:

1. Identifying the tree species.
2. Verifying or tagging trees and recording locations on a map.
3. Measuring the trunk diameter at a point 54 inches above grade.
4. Evaluating the health and structural condition using a scale of 1 – 5:
    - ***5*** - A healthy, vigorous tree, reasonably free of signs and symptoms of disease, with good structure and form typical of the species.
    - ***4*** - Tree with slight decline in vigor, small amount of twig dieback, minor structural defects that could be corrected.
    - ***3*** - Tree with moderate vigor, moderate twig and small branch dieback, thinning of crown, poor leaf color, moderate structural defects that might be mitigated with regular care.
    - ***2*** - Tree in decline, epicormic growth, extensive dieback of medium to large branches, significant structural defects that cannot be abated.
    - ***1*** - Tree in severe decline, dieback of scaffold branches and/or trunk; most of foliage from epicormics; extensive structural defects that cannot be abated.
5. Rating the suitability for preservation as "high", "moderate" or "low". Suitability for preservation considers the health, age and structural condition of the tree, and its potential to remain an asset to the site for years to come.
    - ***High***: Trees with good health and structural stability that have the potential for longevity at the site.
    - ***Moderate***: Trees with somewhat declining health and/or structural defects than can be abated with treatment. The tree will require more intense management, monitoring, and may have shorter life span than those in 'high' category.
    - ***Low***: Trees in poor health or with significant structural defects that cannot be mitigated. Tree is expected to continue to decline, regardless of treatment. The species or individual may have characteristics that are undesirable for landscapes, and generally are unsuited for use areas.

Description of Trees

Twenty-three (23) trees representing six species were evaluated (Table 1). Coast redwoods and valley oaks are native to the Alameda County area, trees of these two species, however, are unlikely indigenous to the site. The remaining five trees were ornamental species. All of the trees were located on the eastern half of the property with the majority located along the edge of Washington Avenue. Overall, 16 trees (70%) were in good condition, four (17%) were in fair condition, and three (13%) were in poor condition (Table 1). Descriptions of each tree are found in the ***Tree Assessment Form***, and approximate locations are plotted on the ***Tree Assessment Map*** (see Exhibits).

Table 1. Condition ratings and frequency of occurrence of trees 14143-14273 Washington Avenue, San Leandro, CA

Common Name	Scientific Name	Condition			Total
		Poor (1-2)	Fair (3)	Good (4-5)	
Norfolk island pine	*Araucaria heterophylla*	-	-	2	**2**
Loquat	*Eriobotrya japonica*	1	-	-	**1**
Ginkgo	*Ginkgo biloba*	-	1	-	**1**
Victorian box	*Pittosporum undulatum*	1	-	-	**1**
Valley oak	*Quercus lobata*	1	1	-	**2**
Coast redwood	*Sequoia sempervirens*	-	2	14	**16**
Total		**3**	**4**	**16**	**23**

Among the 16 coast redwoods, 14 were in good condition, trees #111 and #120 were fair, and none were in poor condition. Trees ranged in development from young to mature with trunk diameters from 9 to 45 inches (Photo 1).

Photo 1 (right): Looking southeast along Washington Avenue at trees #101-104 (back to front). Trees #101 and 102 were close to average size for coast redwoods at the site, while #103 and 104 were two of the smallest.

The remaining species were represented by two or fewer individuals:

- Female ginkgo #118 was growing along the south edge of the driveway for 14143 Washington Avenue. Fruit covered the driveway below its canopy. It was semi-mature in development and 14 inches in trunk diameter. The ginkgo was in fair condition with multiple attachments throughout the canopy.

- Loquat #119 was growing adjacent to the north of the building at 14173. It was semi-mature in development with two stems (7 and 4 inches in diameter). It was in poor condition.
- Norfolk Island pines #113 and #122 were growing along Washington Avenue on the northern half of the property. Both trees were mature in development with trunk diameters of 23 and 26 inches respectively. Both trees were in good condition and had been pruned for utilities (Photo 2).

Photo 2 (left): Looking north along Washington Avenue at Norfolk Island pine #122. Both Norfolk Island pines had similar structure, with #122 the more vigorous of the two.

- Valley oaks #114 and #123 were located on the north half of the property. Both trees were semi-mature in development and had trunk diameters of 8 and 13 inches respectively. Tree #114 was in poor condition while #123 was fair. Both trees had multiple attachments along their trunks.
- Victorian box #121 was located at the northern corner of the property. It was mature in development with multiple stems. It was almost dead with very poor structure.

San Leandro's Municipal Code only protects *Street Trees* growing within the public right-of-way. Although the extent of the ROW was not marked in the field, no trees appeared to be *Street Trees*. It appears that none of the trees included in this assessment require a permit to be removed.

Suitability for Preservation

Before evaluating the impacts that will occur during development, it is important to consider the quality of the tree resource itself, and the potential for individual trees to function well over an extended length of time. Trees that are preserved on development sites must be carefully selected to make sure that they may survive development impacts, adapt to a new environment and perform well in the landscape.

Our goal is to identify trees that have the potential for long-term health, structural stability and longevity. For trees growing in open fields, away from areas where people and property are present, structural defects and/or poor health present a low risk of damage or injury if they fail. However, we must be concerned about safety in use areas. Therefore, where development encroaches into existing plantings, we must consider their structural stability as well as their potential to grow and thrive in a new environment. Where development will not occur, the normal life cycles of decline, structural failure and death should be allowed to continue.

Evaluation of suitability for preservation considers several factors:

- **Tree health**
  Healthy, vigorous trees are better able to tolerate impacts such as root injury, demolition of existing structures, changes in soil grade and moisture, and soil compaction than are non-vigorous trees. For example, valley oak #114 was in poor condition and should be removed regardless of construction impact.

- **Structural integrity**
  Trees with significant amounts of wood decay and other structural defects that cannot be corrected are likely to fail. Such trees should not be preserved in areas where damage to people or property is likely. For example, Victorian box #121 had a decayed trunk and multiple attachments.

- **Species response**
  There is a wide variation in the response of individual species to construction impacts and changes in the environment. For instance, loquats and ginkgoes have good tolerance to root pruning under more general conditions while coast redwoods are more tolerant of root pruning when soil is adequately moist.

- **Tree age and longevity**
  Mature trees, while having significant emotional and aesthetic appeal, have limited physiological capacity to adjust to an altered environment. Young trees are better able to generate new tissue and respond to change. The coast redwoods were generally young and are expected to have a high degree of adaptability to site changes. Meanwhile, Victorian box #121 is overly mature and expected to decline or die with any adjacent construction activity.

- **Species invasiveness**
  Species that spread across a site and displace desired vegetation are not always appropriate for retention. This is particularly true when indigenous species are displaced. The California Invasive Plant Inventory Database http://www.cal-ipc.org/plants/inventory/ lists species identified as being invasive. San Leandro is part of the Central West Floristic Province. No invasive trees were growing on the site.

Each tree was rated for suitability for preservation based upon its age, health, structural condition and ability to safely coexist within a development environment (see ***Tree Assessment*** in Exhibits, and Table 2). We consider trees with “high” suitability for preservation to be the best candidates for preservation. We do not recommend retention of trees with “low” suitability for preservation in areas where people or property will be present. Retention of trees with “moderate” suitability for preservation depends upon the intensity of proposed site changes.

Table 2. Tree suitability for preservation
14143-14273 Washington Avenue, San Leandro, CA

High	These are trees with good health and structural stability that have the potential for longevity at the site. Sixteen (16) trees, including 14 coast redwoods and both Norfolk Island pines, had "high" suitability for preservation.
Moderate	Trees in this category have fair health and/or structural defects that may be abated with treatment. These trees require more intense management and monitoring, and may have shorter life-spans than those in the "high" category. Coast redwoods #111 and #120, ginkgo #118, and valley oak #123 had "moderate" suitability for preservation.
Low	Trees in this category are in poor health or have significant defects in structure that cannot be abated with treatment. These trees can be expected to decline regardless of management. The species or individual tree may possess either characteristics that are undesirable in landscape settings or be unsuited for use areas. Valley oak #114, loquat #119, and Victorian box #121 had "low" suitability for preservation.

Preliminary Evaluations of Impacts and Recommendations

Appropriate tree retention develops a practical match between the location and intensity of construction activities with the quality and health of trees. The ***Tree Assessment*** was the reference point for tree condition and quality. Impacts from construction were estimated given the project information available to date. I referred to the Topographic Survey C1.0 (dated 10.22.2021), Conceptual Site Plan Washington Avenue (dated 03.11.2021), and SITE Model (undated) to evaluate impacts.

All plans were conceptual in nature. No trunk locations or canopy outlines for the trees were included on the provided plans. As such, the assessment of impacts to trees is preliminary. The development proposes to demolish an existing set of commercial buildings and construct a new building with parking spaces and associated sidewalks. Development will encompass the entire site, limiting opportunity for preservation of on-site trees.

Based on the proposed plan, I recommend preservation of 13 trees and removal of 10 (Table 3). The 13 trees recommended for preservation had a high suitability for preservation. Those trees recommended for preservation included coast redwoods #101 to 110 and #112, and Norfolk Island pines #113 and #122.

Retention of these trees is predicated on strict adherence to the ***Preliminary Tree Preservation Guidelines***. If construction activity is kept at least 1.5 to 3.5 feet from the trunk AND at least 60 percent of the total root area is retained, I expect that impacts will be within the tolerance of the trees (see Table 3 "Notes" for exact minimum distances by tree).

For the coast redwoods, some amount of canopy and root pruning may be required. Although the driplines of these trees are within the proposed construction area, coast redwoods are tolerant of root pruning and can be retained even with activity in the root zone. Additionally, these trees provide significant benefits to the site in their current location. They provide good screening of surrounding infrastructure and property boundaries as well as shading of adjacent asphalt. **[*recommendations continued on following page*]**

Preliminary Evaluations of Impacts and Recommendations (continued)

Among the 10 trees to be removed are eight trees within the proposed building footprint and two trees within the proposed parking and driveway construction. This includes five coast redwoods, valley oaks #114 and #123, ginkgo #118, loquat #119, and Victorian box #121. Three coast redwoods had a high suitability for preservation while the remaining trees had low to moderate suitability.

Table 3: Preliminary disposition
14143-14273 Washington Avenue, San Leandro, CA

Tree No.	Species	Trunk Diameter (in.)	Protected Tree?	Condition 1=poor 5=excellent	Suitability for Preservation	Disposition	Comments
101	Coast redwood	21	No	5	High	Preserve	W/in proposed landscape area. Preservation possible w/ minor modifications to plans. Construction impacts must be >3' from root crown.
102	Coast redwood	16	No	5	High	Preserve	W/in proposed landscape area. Preservation possible w/ minor modifications to plans. Construction impacts must be >2' from root crown.
103	Coast redwood	11	No	5	High	Preserve	W/in proposed landscape area. Preservation possible w/ minor modifications to plans. Construction impacts must be >1.5' from root crown.
104	Coast redwood	9	No	5	High	Preserve	W/in proposed landscape area. Preservation possible w/ minor modifications to plans. Construction impacts must be >1.5' from root crown.
105	Coast redwood	15	No	4	High	Preserve	W/in proposed landscape area. Preservation possible w/ minor modifications to plans. Construction impacts must be >2' from root crown.

Table 3: Preliminary disposition
14143-14273 Washington Avenue, San Leandro, CA

Tree No.	Species	Trunk Diameter (in.)	Protected Tree?	Condition 1=poor 5=excellent	Suitability for Preservation	Disposition	Comments
106	Coast redwood	19	No	4	High	Preserve	W/in proposed landscape area. Preservation possible w/ minor modifications to plans. Construction impacts must be >2.5' from root crown.
107	Coast redwood	20	No	5	High	Preserve	W/in proposed landscape area. Preservation possible w/ minor modifications to plans. Construction impacts must be >2.5' from root crown.
108	Coast redwood	21	No	5	High	Preserve	W/in proposed landscape area. Preservation possible w/ minor modifications to plans. Construction impacts must be >3' from root crown.
109	Coast redwood	25	No	5	High	Preserve	W/in proposed landscape area. Preservation possible w/ minor modifications to plans. Construction impacts must be >3.5' from root crown.
110	Coast redwood	15	No	4	High	Preserve	W/in proposed landscape area. Preservation possible w/ minor modifications to plans. Construction impacts must be >2' from root crown.
111	Coast redwood	13	No	3	Moderate	Remove	N. edge of proposed building project area.
112	Coast redwood	17	No	4	High	Preserve	W/in proposed landscape area. Preservation possible w/ minor modifications to plans. Construction impacts must be >2.5' from root crown.

Table 3: Preliminary disposition
14143-14273 Washington Avenue, San Leandro, CA

Tree No.	Species	Trunk Diameter (in.)	Protected Tree?	Condition 1=poor 5=excellent	Suitability for Preservation	Disposition	Comments
113	Norfolk island pine	23	No	4	High	Preserve	W/in proposed landscape area. Preservation possible w/ minor modifications to plans. Construction impacts must be >3' from root crown.
114	Valley oak	8	No	1	Low	Remove	N. edge of proposed building project area.
115	Coast redwood	11	No	5	High	Remove	Within proposed building project area.
116	Coast redwood	11	No	5	High	Remove	Within proposed building project area.
117	Coast redwood	11	No	5	High	Remove	Within proposed building project area.
118	Ginkgo	14	No	3	Moderate	Remove	Within proposed building project area.
119	Loquat	7,4	No	2	Low	Remove	Within proposed building project area.
120	Coast redwood	45	No	3	Moderate	Remove	Within proposed parking lot.
121	Victorian box	18,12,12, 12,8	No	1	Low	Remove	Within proposed parking lot.
122	Norfolk island pine	26	No	4	High	Preserve	W/in proposed landscape area. Preservation possible w/ minor modifications to plans. Construction impacts must be >3.5' from root crown.
123	Valley oak	13	No	3	Moderate	Remove	Within proposed building project area.

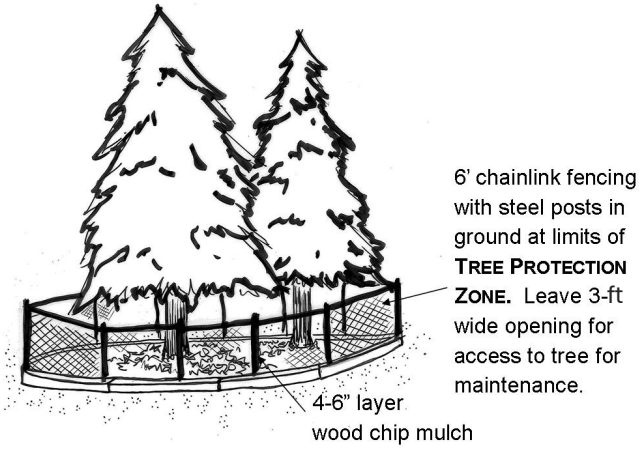
Preliminary Tree Preservation Guidelines

The following recommendations will help reduce impacts to trees from development as well as maintain and improve their health and vitality through the clearing, grading and construction phases. The key elements of a tree preservation plan for the Washington Avenue site would include:

- Retaining select trees with high or moderate suitability for preservation.
- Establishing **Tree Protection Zones** for each tree to be preserved. **Tree Protection Zones** are identified by the Consulting Arborist based on species tolerances, tree condition, trunk diameters and the nature and proximity of the proposed disturbance.
- Providing supplemental irrigation prior to and during the demolition and construction phases.

Design recommendations

1. All plans affecting trees shall be reviewed by the Consulting Arborist with regard to tree impacts. These include, but are not limited to, demolition plans, grading and utility plans, landscape and irrigation plans.
2. For trees identified for preservation, designate a **Tree Protection Zone** in which no construction, grading and underground services including utilities, sub-drains, water or sewer will be located (Figure 1). For design purposes, the **Tree Protection Zone** should be either the dripline or edge of proposed construction. The **TPZ** should begin no closer than the minimum distances listed in Table 3 (page 6) and encompass at least 60 percent of each tree's root mass. Depending on the tree to be preserved, additional space beyond the dripline may be required.
3. No grading, excavation, construction or storage of materials shall occur within the **Tree Protection Zone**.
4. No underground services including utilities, sub-drains, water or sewer shall be placed in the **Tree Protection Zone**.



Detail A: Redwood Tree Protection Fencing

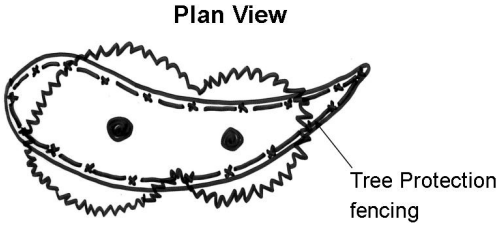


Figure 1: An example of a **Tree Protection Zone** which encroaches slightly on the dripline of the trees but designates the edge of proposed construction.

5. Irrigation systems must be designed so that no trenching will occur within the **Tree Protection Zone**.

6. As trees withdraw water from the soil, expansive soils may shrink within the root area. Therefore, foundations, footings and pavements on expansive soils near trees should be designed to withstand differential displacement.

7. Consider having a temporary irrigation system installed (using soaker hoses or PVC pipes laid on the ground and covered with mulch) as soon as possible to supply the trees with water and help them recover and prepare them for impacts associated with the demolition and construction process.

8. Consider the vertical clearance requirements near trees during design. Avoid designs that would require pruning more than 20% of a tree's canopy.

Pre-construction treatments and recommendations

1. The demolition contractor shall meet with the Consulting Arborist before beginning work to discuss work procedures and tree protection.

2. Where possible, cap and abandon all existing underground utilities within the **TPZ** in place. Removal of utility boxes by hand is acceptable but no trenching should be performed within the **TPZ** in an effort to remove utilities, irrigation lines, etc.

3. Fence all trees to be retained to completely enclose the **Tree Protection Zone** prior to demolition, grubbing or grading. Fences shall be 6 ft. chain link or equivalent as approved by the Consulting Arborist. Fences are to remain until all grading and construction is completed.

4. Prune trees to be preserved to clean the crown of dead branches 1 inch and larger in diameter and raise canopies as needed for construction activities. All pruning shall be done by a State of California Licensed Tree Contractor (C61/D49). All pruning shall be done by Certified Arborist or Certified Tree Worker in accordance with the Best Management Practices for Pruning (International Society of Arboriculture, 2002) and adhere to the most recent editions of the American National Standard for Tree Care Operations (Z133.1) and Pruning (A300). The Consulting Arborist will provide pruning specifications prior to site demolition. Branches extending into the work area that can remain following demolition shall be tied back and protected from damage.

5. All tree work shall comply with the Migratory Bird Treaty Act as well as California Fish and Wildlife code 3503-3513 to not disturb nesting birds. Tree pruning and removal should be scheduled outside of the breeding season to avoid scheduling delays. Breeding bird surveys should be conducted prior to tree work. Qualified biologists should be involved in establishing work buffers for active nests.

6. Tree(s) to be removed that have branches extending into the canopy of tree(s) to remain must be removed by a qualified arborist and not by construction contractors. The qualified arborist shall remove the tree in a manner that causes no damage to the tree(s) and understory to remain. Tree stumps shall be ground 12 inches below ground surface.

7. Trees to be removed shall be felled so as to fall away from **Tree Protection Zone** and avoid pulling and breaking of roots of trees to remain. If roots are entwined, the consultant may require first severing the major woody root mass before extracting the trees, or grinding the stump below ground.

8. Apply and maintain 4-6 inches of wood chip mulch within the **Tree Protection Zone.**

Recommendations for tree protection during construction

1. Prior to beginning work, the contractors working in the vicinity of trees to be preserved are required to meet with the Consulting Arborist at the site to review all work procedures, access routes, storage areas and tree protection measures.

2. All contractors shall conduct operations in a manner that will prevent damage to trees to be preserved.

3. Any grading, construction, demolition or other work that is expected to encounter tree roots should be monitored by the Consulting Arborist.

4. Tree protection fences are to remain until all site work has been completed. Fences may not be relocated or removed without permission of the Consulting Arborist.

5. Construction trailers, traffic and storage areas must remain outside fenced areas at all times.

6. Prior to grading, pad preparation, excavation for foundations/footings/walls, trenching, trees may require root pruning outside the **Tree Protection Zone** by cutting all roots cleanly to the depth of the excavation. Roots shall be cut by manually digging a trench and cutting exposed roots with a saw, with a vibrating knife, rock saw, narrow trencher with sharp blades, or other approved root pruning equipment. The Consulting Arborist will identify where root pruning is required and monitor all root pruning activities.

7. If injury should occur to any tree during construction, it should be evaluated as soon as possible by the Consulting Arborist so that appropriate treatments can be applied.

8. No excess soil, chemicals, debris, equipment or other materials shall be dumped or stored within the **Tree Protection Zone**.

9. Any additional tree pruning needed for clearance during construction must be performed by a Certified Arborist and not by construction personnel.

10. All trees shall be irrigated on a schedule to be determined by the Consulting Arborist (every 3 to 6 weeks April through October is typical). Each irrigation shall wet the soil within the **Tree Protection Zone** to a depth of 24 inches.

Maintenance of impacted trees

Our procedures included assessing trees for observable defects in structure. This is not to say that trees without significant defects will not fail. Failure of apparently defect-free trees does occur, especially during storm events. Wind forces, for example, can exceed the strength of defect-free wood causing branches and trunks to break. Wind forces coupled with rain can saturate soils, reducing their ability to hold roots, and blow over defect-free trees. Although we cannot predict all failures, identifying those trees with observable defects is a critical component of enhancing public safety.

Furthermore, trees change over time. Our inspections represent the condition of the tree at the time of inspection. As trees age, the likelihood of failure of branches or entire trees increases. Annual tree inspections are recommended to identify changes to tree health and structure. In addition, trees should be inspected after storms of unusual severity to evaluate damage and structural changes. Initiating these inspections is the responsibility of the client and/or tree owner.

Preserved trees will experience a physical environment different from that of pre-development. As a result, tree health and structural stability should be monitored. Occasional pruning, fertilization, mulch, pest management, replanting and irrigation may be required. In addition, provisions for monitoring both tree health and structural stability following construction must be made a priority.

If you have any questions about my observations or recommendations, please contact me.

HortScience | Bartlett Consulting

Allegra Mautner, Consulting Arborist & Urban Forester
ISA Certified Arborist No. WE-10369A
ISA Tree Risk Assessment Qualified

Exhibits

Tree Assessment Map

Tree Assessment Form

Tree Assessment Map

14143 Washington Avenue
San Leandro, CA

Prepared for:
First Industrial Realty Trust, Inc.
Lafayette, CA

January 2022

No Scale

Notes:
Base map provided by:
Kier & Wright
Livermore, CA

Numbered tree locations are approximate.

HORT SCIENCE
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Tree Assessment

First Industrial Realty Trust, Inc.
San Leandro, CA
February 2022

HORT SCIENCE
BARTLETT CONSULTING
Divisions of The F.A. Bartlett Tree Expert Company

Tree No.	Species	Trunk Diameter (in.)	Protected Tree?	Condition 1=poor 5=excellent	Suitability for Preservation	Comments
101	Coast redwood	21	No	5	High	In shrub planting bed; 6' from fence; typical form and structure; slightly drought-stressed; vigorous.
102	Coast redwood	16	No	5	High	In shrub planting bed; 4' from fence; typical form and structure; slightly drought-stressed; vigorous.
103	Coast redwood	11	No	5	High	In shrub planting bed; 4' from fence; typical form and structure; vigorous; good young tree.
104	Coast redwood	9	No	5	High	In shrub planting bed; 4' from fence; typical form and structure; vigorous; good young tree.
105	Coast redwood	15	No	4	High	In shrub planting bed; 4' from fence; typical form and structure; large surface root; crowded.
106	Coast redwood	19	No	4	High	In shrub planting bed; 6-8' from fence; typical form and structure; crowded.
107	Coast redwood	20	No	5	High	In shrub planting bed; 2' from fence; typical form and structure; crowded.
108	Coast redwood	21	No	5	High	In shrub planting bed; 4' from fence; typical form and structure; crowded.
109	Coast redwood	25	No	5	High	In shrub planting bed; 2' from fence; typical form and structure; crowded.
110	Coast redwood	15	No	4	High	In corner shrub planting bed; 4' from curb; typical form and structure; crowded.
111	Coast redwood	13	No	3	Moderate	In corner shrub planting bed; 2' from curb; very crowded; 1-sided to W.
112	Coast redwood	17	No	4	High	In corner shrub planting bed; slightly sparse crown.

Tree Assessment

First Industrial Realty Trust, Inc.
San Leandro, CA
February 2022

HORT SCIENCE
BARTLETT CONSULTING
Divisions of The F.A. Bartlett Tree Expert Company

Tree No.	Species	Trunk Diameter (in.)	Protected Tree?	Condition 1=poor 5=excellent	Suitability for Preservation	Comments
113	Norfolk island pine	23	No	4	High	Pruned at street for utilities; raised crown; slightly sparse.
114	Valley oak	8	No	1	Low	Measured below attachments at 2'; extensive branch dieback; history of limb removal.
115	Coast redwood	11	No	5	High	In lawn ~3' from fence; typical form and structure; crowded; good young tree.
116	Coast redwood	11	No	5	High	In lawn ~3' from fence; typical form and structure; crowded; good young tree.
117	Coast redwood	11	No	5	High	In lawn ~3' from fence; typical form and structure; crowded; good young tree.
118	Ginkgo	14	No	3	Moderate	Female; Codominant stems at 5' w/ fused stems; multiple attachments at 6 and 8'; tangled branch structure.
119	Loquat	7,4	No	2	Low	Growing in pavers at fence; codominant stems arise from base; crowded.
120	Coast redwood	45	No	3	Moderate	Pendulous branches; slightly drought-stressed; pallet stacked w/ concrete S. side.
121	Victorian box	18,12,12,12,8	No	1	Low	Multiple attachments at 2'; spreading vase form; decayed trunk and stems; all but dead.
122	Norfolk island pine	26	No	4	High	1' from curb wall; utility pruned on E. side; vigorous.
123	Valley oak	13	No	3	Moderate	In raised soil area at fence; multiple attachments at 12'; correcting lean N. slightly sinuous form.

Appendix B

Air Quality and Greenhouse Gas Emissions Impact Report
and Updated CalEEMod Modeling Results

FIRSTCARBONSOLUTIONS™

Air Quality and Greenhouse Gas Emissions Impacts Report
Washington Avenue Warehouse Project
City of San Leandro, Alameda County, California

Project Applicant:
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Lafayette, CA 94569

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Prepared by:
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925.357.2562

Contact: Mary Bean, Project Director
Philip Ault, Director of Noise and Air Quality
Spencer Pignotti, Air Quality Associate

Date: August 1, 2022
(Revised May 25, 2023)

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ACRONYMS AND ABBREVIATIONS

AB	Assembly Bill
ABAG	Association of Bay Area Governments
ACF	Advanced Clean Fleet
ACT	Advanced Clean Trucks
AERMOD	American Meteorological Society/EPA Regulatory Model
AQI	Air Quality Index
AQMD	Air Quality Management District
AQP	Air Quality Plan
ARB	California Air Resources Board
ATCM	Airborne Toxic Control Measures
BAAQMD	Bay Area Air Quality Management District
BACT	Best Available Control Technology
BART	Bay Area Rapid Transit
BAU	Business-as-usual
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standard
CAP	Climate Action Plan
CARE	Community Air Risk Evaluation
CCAA	California Clean Air Act
CCCC	California Climate Change Center
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CNRA	California Natural Resources Agency
CPUC	California Public Utilities Commission
CTC	County Transportation Commission
DPM	diesel particulate matter
DWR	California Department of Water Resources
EBMUD	East Bay Municipal Utility District
EIR	Environmental Impact Report
EISA	Energy Independence and Security Act
EPA	United States Environmental Protection Agency
EV	electric vehicle
FAR	floor area ratio
FCS	FirstCarbon Solutions

GHG	greenhouse gas
GIS	Geographic Information System
GWP	Global Warming Potential
HHD	heavy heavy-duty
HI	hazard index
HRA	Health Risk Assessment
IPCC	Intergovernmental Panel on Climate Change
ISO	Independent System Operator
LCFS	Low Carbon Fuel Standard
LEV	Low Emission Vehicle
MIR	Maximally Impacted Sensitive Receptor
MT	metric tons
MTC	Metropolitan Transportation Commission
NAAQS	National Ambient Air Quality Standard
NHTSA	National Highway Traffic Safety Administration
NO_X	oxides of nitrogen
OEHHA	Office of Environmental Health Hazard Assessment
OPR	Governor's Office of Planning and Research
PACE	Program for All-Inclusive Elder
PERP	Portable Equipment Registration Program
PG&E	Pacific Gas and Electric Company
PM	particulate matter
REL	Reference Exposure Level
ROG	reactive organic gases
RPS	Renewable Portfolio Standard
SB	Senate Bill
SFBAAB	San Francisco Bay Area Air Basin
SIP	State Implementation Plan
SLR	sea-level rise
SO_X	sulfur oxide
TAC	toxic air contaminants
TAZ	Traffic Analysis Zone
TDM	Transportation Demand Management
TIA	Traffic Impact Analysis
TRU	Transport Refrigeration Unit
VDECS	Verified Diesel Emission Control Strategies
VMT	Vehicle Miles Traveled
VOC	volatile organic compounds

WELO	Water Efficient Landscape Ordinance
WPCP	Water Pollution Control Plant
WRI	World Resources Institute
ZEV	Zero-Emission Vehicle

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SECTION 1: INTRODUCTION

1.1 - Purpose of Analysis and Study Objectives

This memorandum summarizes the findings of an Air Quality and Greenhouse Gas Emissions Impacts Constraints Analysis conducted by FirstCarbon Solutions (FCS) for the property located at 14143-14273 Washington Avenue in San Leandro, California. Recommended measures to avoid or minimize potential project-related impacts to sensitive receptors in the project vicinity are included as appropriate.

1.2 - Project Understanding

1.2.1 - Site Location

The project site is located in the City of San Leandro, in Alameda County, California (Exhibit 1). The project scope will include combining six parcels into one lot with a total area of 3.45 acres at 14143-14273 Washington Avenue in San Leandro (Assessor's Parcel Numbers [APNs] 77B-1222-3-3, 77B-1222-4-3, 77B-1222-5-3, 77B-1222-6-15, 77B-1222-6-17, 77B-1222-6-18) (Exhibit 2). The project applicant, First Industrial Realty Trust, Inc., proposes to develop a 52,500-square-foot building which includes 5,000 square feet of office uses and 47,500 square feet of warehouse uses on the proposed project site (Exhibit 3).[1] The proposed project would include 64 automobile parking stalls, five truck parking stalls, as well as 15 dock-high doors and two drive-in doors in the rear of the building. Outside of the proposed building and pavement, the site shall be fully landscaped and irrigated.

The project site is bounded by Washington Avenue to the east, 139th Avenue to the north, and railroad tracks to the south and west. As part of the proposed project, the existing three buildings at the site would be demolished and the debris would be removed from the site. (Note: since the following analysis was completed, the buildings were damaged in a fire and have been demolished. This does not change the conclusions of this report.) Surrounding the project site are industrial transition land uses to the north, public/institutional land uses to the west across the railroad tracks, industrial transition land uses to the south, and industrial transition land uses to the east.

[1] Note, the land use totals described herein are based on a preliminary site plan. Although the land uses described in the Noise Impact Analysis Report (5,000 square feet of office space and 47,269 square feet of warehouse space) are different from what is described in this Air Quality, Greenhouse Gas, and Energy Report, this report estimates project impacts based on the same amount of office space and a greater amount of warehouse space. As such, this analysis presents a conservative analysis that demonstrates the maximum possible impacts from the construction and operation of the proposed project.

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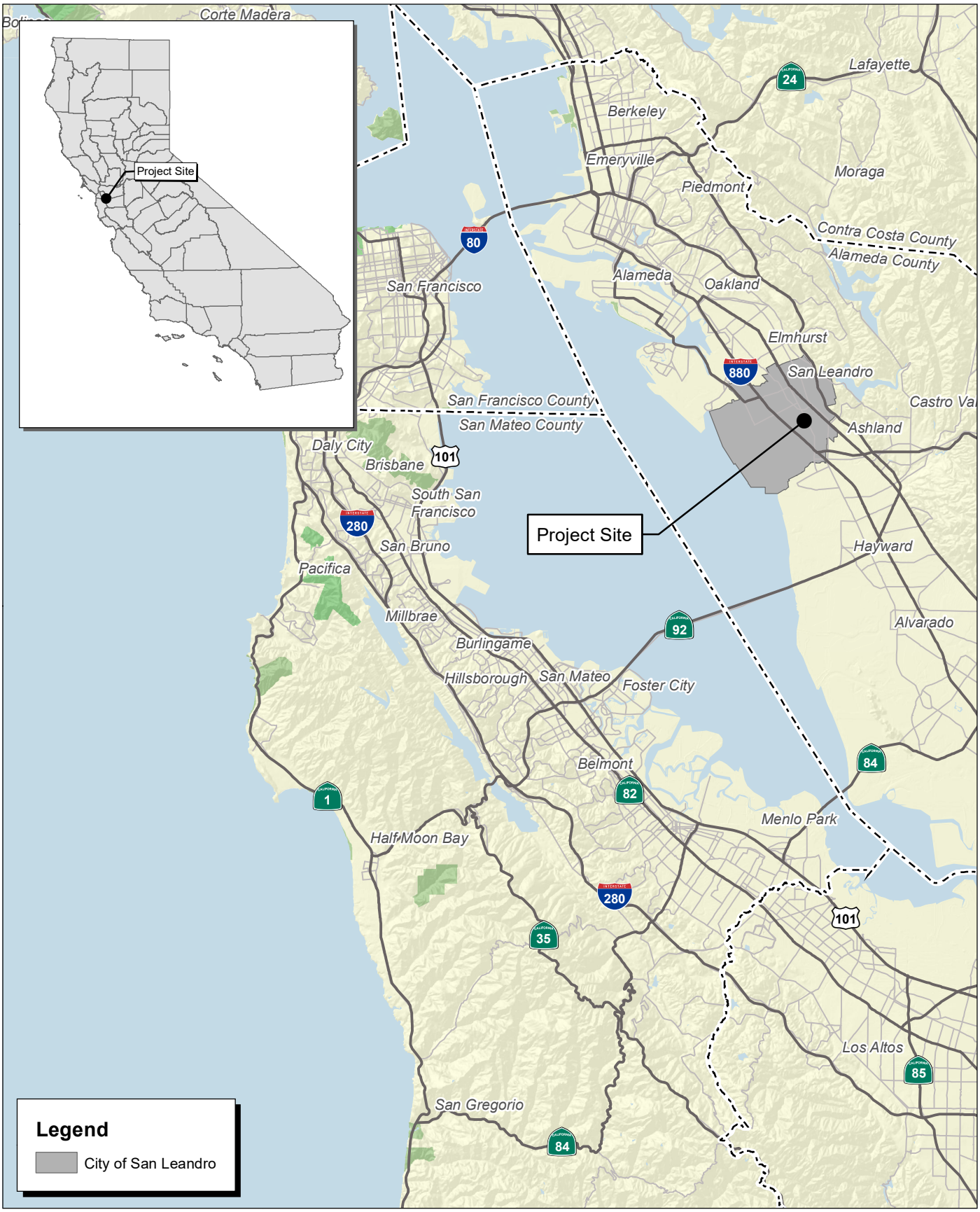

Source: Census 2000 Data, The California Spatial Information Library (CaSIL). Alameda County.

FIRSTCARBON SOLUTIONS™

5 2.5 0 5 Miles

Exhibit 1
Regional Location Map

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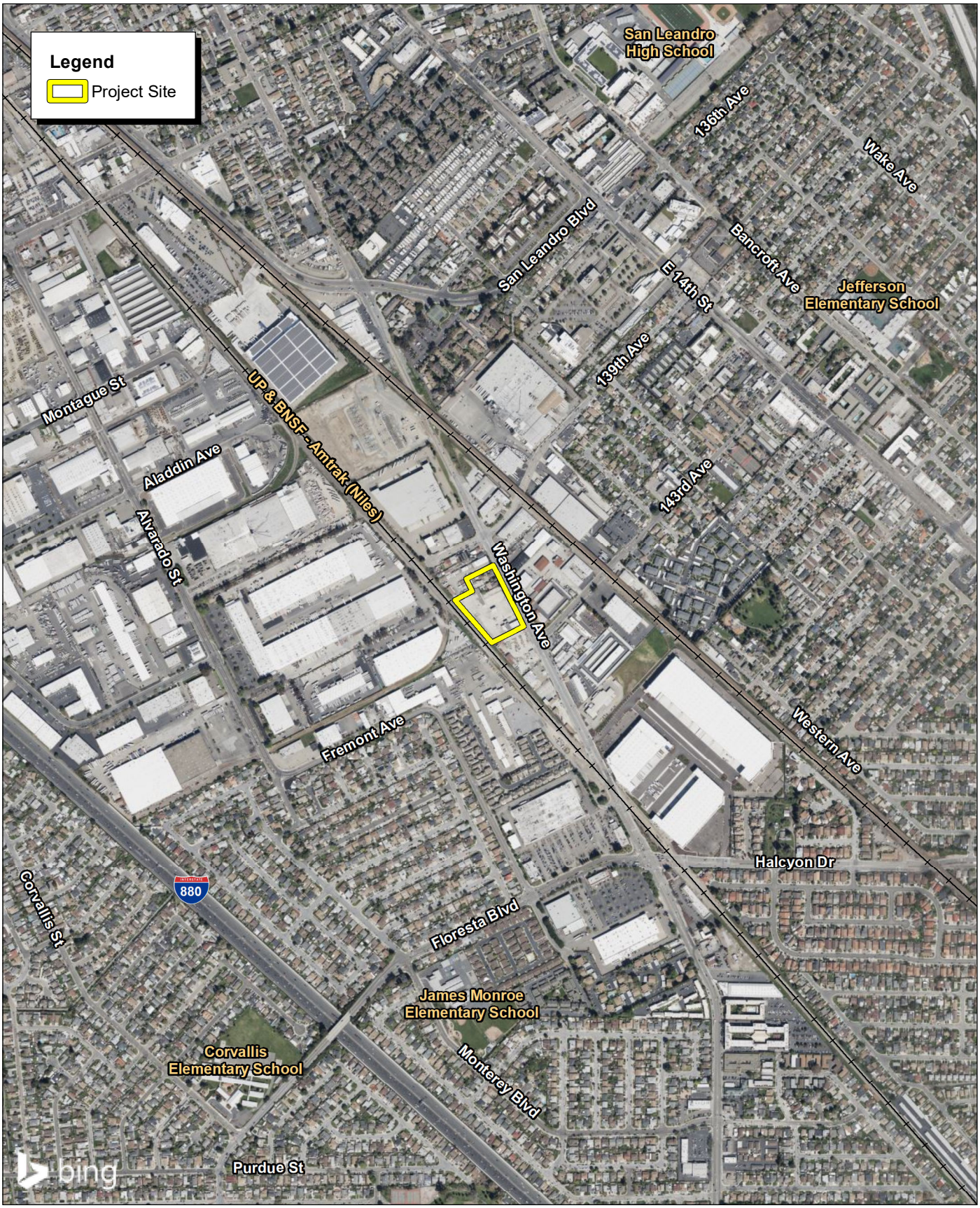

Source: Bing Aerial Imagery.

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1,000 500 0 1,000 Feet

Exhibit 2
Local Vicinity Map

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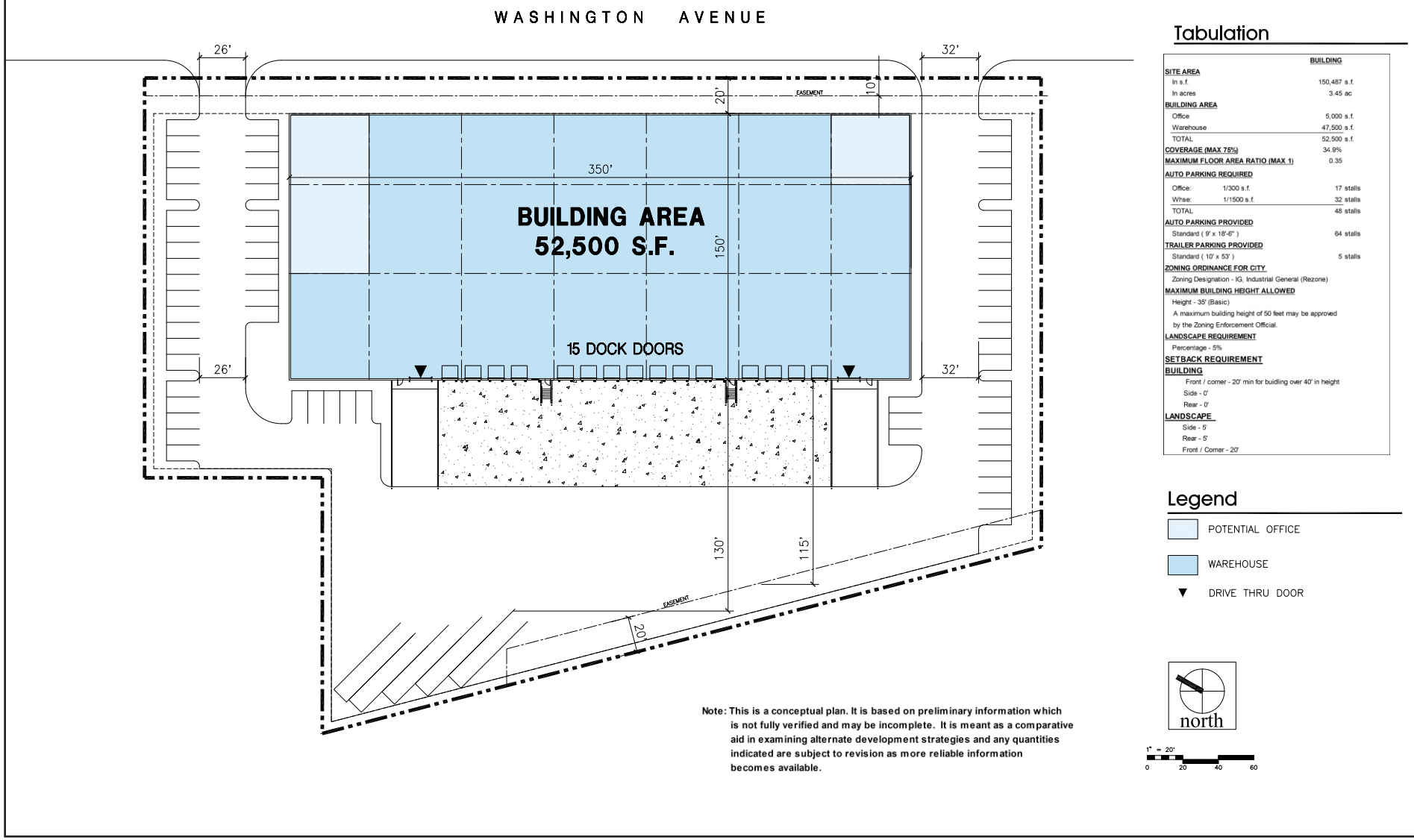

Source: HPA Architecture, March 11, 2021

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Exhibit 3
Site Plan

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SECTION 2: ENVIRONMENTAL SETTING

2.1 - Air Quality

The City of San Leandro is located within the San Francisco Bay Area Air Basin (Air Basin or SFBAAB). The Air Basin is approximately 5,600 square miles in area and consists of nine counties that surround the San Francisco Bay, including all of Alameda, Contra Costa, Marin, San Francisco, San Mateo, Santa Clara, and Napa counties; the southwestern portion of Solano County; and the southern portion of Sonoma County. The San Francisco Bay Area has a Mediterranean climate characterized by mild, dry summers and mild, moderately wet winters, moderate daytime onshore breezes, and moderate humidity.

A semi-permanent, high-pressure area centered over the northeastern Pacific Ocean dominates the summer climate of the West Coast. Because this high-pressure cell is persistent, storms rarely affect the California coast during the summer. Thus, the conditions that persist along the coast of California during summer are a northwest airflow and negligible precipitation. A thermal low-pressure area from the Sonoran-Mojave Desert also causes air to flow onshore over the Bay Area much of the summer.

The steady northwesterly flow around the eastern edge of the Pacific High (a high-pressure cell) exerts stress on the ocean surface along the West Coast. This airflow pattern induces upwelling of cold water from below the surface. Upwelling produces a band of cold water off San Francisco that is approximately 80 miles wide. During July, the surface waters off San Francisco are 3°F (degrees Fahrenheit) cooler than those off Vancouver, British Columbia, more than 900 miles to the north. Air approaching the California coast, already cool and moisture-laden from its long trajectory over the Pacific Ocean is further cooled as it flows across this cold bank of water near the coast, thus accentuating the temperature contrast across the coastline. This cooling is often sufficient to produce condensation–a high incidence of fog and stratus clouds along the Northern California coast in summer.

In summer, the northwest winds to the west of the Pacific coastline are drawn into the interior through the gap in the western Coast Ranges, known as the Golden Gate, and over the lower portions of the San Francisco Peninsula. Immediately to the south of Mount Tamalpais, the northwesterly winds accelerate considerably and come nearly from the west as they stream through the Golden Gate. This channeling of the flow through the Golden Gate produces a jet that sweeps eastward but widens downstream, producing southwest winds at Berkeley and northwest winds at San José; a branch also curves eastward through the Carquinez Straits and into the Central Valley. Wind speeds may be locally strong in regions where air is channeled through a narrow opening such as the Golden Gate, the Carquinez Strait, or San Bruno Gap. For example, the average wind speed at San Francisco International Airport from 3:00 a.m. to 4:00 p.m. in July is about 20 miles per hour (mph), compared with only about 8 mph at San José and less than 7 mph at the Farallon Islands.

The sea breeze between the coast and the Central Valley[2] commences near the surface along the coast in late morning or early afternoon; it may first be observed only through the Golden Gate. Later in the day, the layer deepens and intensifies while spreading inland. As the breeze intensifies and deepens, it flows over the lower hills farther south along the peninsula. This process frequently can be observed as a bank of stratus clouds "rolling over" the coastal hills on the west side of the Bay. The depth of the sea breeze depends in large part upon the height and strength of the inversion. The generally low elevation of this stable layer of air prevents marine air from flowing over the coastal hills. It is unusual for the summer sea breeze to flow over terrain exceeding 2,000 feet in elevation.

In winter, the SFBAAB experiences periods of storminess, moderate-to-strong winds, and periods of stagnation with very light winds. Winter stagnation episodes are characterized by outflow from the Central Valley, nighttime drainage flows in coastal valleys, weak onshore flows in the afternoon, and otherwise light and variable winds.

A primary factor in air quality is the mixing depth (the vertical air column available for diluting contaminant sources). Generally, the air temperature decreases with height, creating a gradient from warmer air near the ground to cooler air at elevation caused by the sun converting large amounts of energy to sensible heat at the ground, which warms the air at the surface. The warm air rises in the atmosphere, where it expands and cools. Sometimes, however, the temperature of air increases with height. This condition is known as a temperature inversion because the atmosphere's temperature profile is "inverted" from its usual state. Over the SFBAAB, the frequent occurrence of temperature inversions limits mixing depth and, consequently, limits the availability of air for dilution.

2.1.1 - Air Pollutant Types, Sources, and Effects

Criteria Air Pollutants

Air pollutants are termed criteria air pollutants if they are regulated by developing specific public health- and welfare-based criteria as the basis for setting permissible levels. Table 1 provides a summary of the types, sources, and effects of criteria air pollutants.

Table 1: Description of Criteria Pollutants of National and California Concern

Criteria Pollutant	Physical Description and Properties	Sources	Most Relevant Effects from Pollutant Exposure
Ozone	Ozone is a photochemical pollutant as it is not emitted directly into the atmosphere but is formed by a complex series of chemical reactions between volatile organic compounds (VOC), nitrous oxides (NO_X), and sunlight.	Ozone is a secondary pollutant; thus, it is not emitted directly into the lower level of the atmosphere. The primary sources of ozone precursors (VOC and NO_X) are mobile	Irritate respiratory system; reduce lung function; breathing pattern changes; reduction of breathing capacity; inflame and damage cells that line the lungs; make lungs more susceptible to infection; aggravate asthma; aggravate other chronic lung

[2] A flat valley that dominates the geographical center of California stretching 450 miles from north-northwest to south-southeast, inland from and parallel to the Pacific Ocean coast. It is bound by the Sierra Nevada to the east and the Coast Range to the west.

Criteria Pollutant	Physical Description and Properties	Sources	Most Relevant Effects from Pollutant Exposure
	Ozone is a regional pollutant that is generated over a large area and is transported and spread by the wind.	sources (on-road and off-road vehicle exhaust).	diseases; cause permanent lung damage; some immunological changes; increased mortality risk; vegetation and property damage.
Particulate matter (PM_{10}) Particulate matter ($PM_{2.5}$)	Suspended particulate matter is a mixture of small particles that consist of dry solid fragments, droplets of water, or solid cores with liquid coatings. The particles vary in shape, size, and composition. PM_{10} refers to particulate matter that is between 2.5 and 10 microns in diameter, (one micron is one-millionth of a meter). $PM_{2.5}$ refers to particulate matter that is 2.5 microns or less in diameter, about one-thirtieth the size of the average human hair.	Stationary sources include fuel or wood combustion for electrical utilities, residential space heating, and industrial processes; construction and demolition; metals, minerals, and petrochemicals; wood products processing; mills and elevators used in agriculture; erosion from tilled lands; waste disposal, and recycling. Mobile or transportation-related sources are from vehicle exhaust and road dust. Secondary particles form from reactions in the atmosphere.	Short-term exposure (hours/days): irritation of the eyes, nose, throat; coughing; phlegm; chest tightness; shortness of breath; aggravate existing lung disease, causing asthma attacks and acute bronchitis; those with heart disease can suffer heart attacks and arrhythmias. Long-term exposure: reduced lung function; chronic bronchitis; changes in lung morphology; death.
Nitrogen dioxide (NO_2)	During combustion of fossil fuels, oxygen reacts with nitrogen to produce nitrogen oxides—NO_X (NO, NO_2, NO_3, N_2O, N_2O_3, N_2O_4, and N_2O_5). NO_X is a precursor to ozone, PM_{10}, and $PM_{2.5}$ formation. NO_X can react with compounds to form nitric acid and related small particles and result in particulate matter related health effects.	NO_X is produced in motor vehicle internal combustion engines and fossil fuel-fired electric utility and industrial boilers. Nitrogen dioxide forms quickly from NO_X emissions. NO_2 concentrations near major roads can be 30 to 100 percent higher than those at monitoring stations.	Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; contributions to atmospheric discoloration; increased visits to hospital for respiratory illnesses.
Carbon monoxide (CO)	CO is a colorless, odorless, toxic gas. CO is somewhat soluble in water; therefore, rainfall and fog can suppress CO conditions. CO enters the body through the lungs, dissolves in the blood, replaces oxygen as an attachment to	CO is produced by incomplete combustion of carbon-containing fuels (e.g., gasoline, diesel fuel, and biomass). Sources include motor vehicle exhaust, industrial	Ranges depending on exposure: slight headaches; nausea; aggravation of angina pectoris (chest pain) and other aspects of coronary heart disease; decreased exercise tolerance in persons with peripheral vascular disease and

Criteria Pollutant	Physical Description and Properties	Sources	Most Relevant Effects from Pollutant Exposure
	hemoglobin, and reduces available oxygen in the blood.	processes (metals processing and chemical manufacturing), residential wood burning, and natural sources.	lung disease; impairment of central nervous system functions; possible increased risk to fetuses; death.
Sulfur dioxide (SO_2)	Sulfur dioxide is a colorless, pungent gas. At levels greater than 0.5 parts per million (ppm), the gas has a strong odor, similar to rotten eggs. Sulfur oxides (SO_X) include sulfur dioxide and sulfur trioxide. Sulfuric acid is formed from sulfur dioxide, which can lead to acid deposition and can harm natural resources and materials. Although sulfur dioxide concentrations have been reduced to levels well below State and federal standards, further reductions are desirable because sulfur dioxide is a precursor to sulfate and PM_{10}.	Human-caused sources include fossil fuel combustion, mineral ore processing, and chemical manufacturing. Volcanic emissions are a natural source of sulfur dioxide. The gas can also be produced in the air by dimethyl sulfide and hydrogen sulfide. Sulfur dioxide is removed from the air by dissolution in water, chemical reactions, and transfer to soils and ice caps. The sulfur dioxide levels in the State are well below the maximum standards.	Bronchoconstriction accompanied by symptoms which may include wheezing, shortness of breath and chest tightness, during exercise or physical activity in persons with asthma. Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient sulfur dioxide levels. It is not clear whether the two pollutants act synergistically, or one pollutant alone is the predominant factor.
Lead (Pb)	Lead is a solid heavy metal that can exist in air pollution as an aerosol particle component. Leaded gasoline was used in motor vehicles until around 1970. Lead concentrations have not exceeded State or federal standards at any monitoring station since 1982.	Lead ore crushing, lead ore smelting, and battery manufacturing are currently the largest sources of lead in the atmosphere in the United States. Other sources include dust from soils contaminated with lead-based paint, solid waste disposal, and crustal physical weathering.	Lead accumulates in bones, soft tissue, and blood and can affect the kidneys, liver, and nervous system. It can cause impairment of blood formation and nerve conduction, behavior disorders, mental retardation, neurological impairment, learning deficiencies, and low IQs.

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Criteria Pollutant	Physical Description and Properties	Sources	Most Relevant Effects from Pollutant Exposure

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Toxic Air Contaminants

Concentrations of toxic air contaminants (TACs) are also used as indicators of air quality conditions. Air pollutant human exposure standards are identified for many TACs, including the following common TACs relevant to development projects: particulate matter, fugitive dust, lead, and asbestos. These air pollutants are called TACs because they are air pollutants that may cause or contribute to an increase in mortality or in serious illness or that may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air; however, their high toxicity or health impact may pose a threat to public health even at low concentrations. TACs can cause long-term health effects (such as cancer, birth defects, neurological damage, asthma, bronchitis, or genetic damage) or short-term acute affects (such as eye watering, respiratory irritation, runny nose, throat pain, or headaches).

TACs are separated into carcinogens and noncarcinogens based on the nature of the physiological effects associated with exposure to a particular TAC. Carcinogens are assumed to have no safe threshold below which health impacts would not occur. Cancer risk is typically expressed as excess cancer cases per million exposed individuals, typically over a lifetime exposure or other prolonged duration. For noncarcinogenic substances, there is generally assumed to be a safe level of exposure below which no negative health impact is believed to occur. These levels may vary depending on the specific pollutant. Acute and chronic exposure to noncarcinogens is expressed as a hazard index (HI), which is the ratio of expected exposure levels to an acceptable reference exposure levels (RELs). Table 2 provides a summary of the types, sources, and effects of TACs.

Table 2: Description of Toxic Air Contaminants of National and California Concern

Toxic Air Contaminant	Physical Description and Properties	Sources	Most Relevant Effects from Pollutant Exposure
Diesel Particulate Matter (DPM)	DPM is a source of $PM_{2.5}$—diesel particles are typically 2.5 microns and smaller. Diesel exhaust is a complex mixture of thousands of particles and gases that is produced when an engine burns diesel fuel. Organic compounds account for 80 percent of the total particulate matter mass, which consists of compounds such as hydrocarbons and their derivatives, and polycyclic aromatic hydrocarbons and their derivatives. Fifteen polycyclic aromatic hydrocarbons are confirmed carcinogens, a number of which are found in diesel exhaust.	Diesel exhaust is a major source of ambient particulate matter pollution in urban environments. Typically, the main source of DPM is from combustion of diesel fuel in diesel-powered engines. Such engines are in on-road vehicles such as diesel trucks, off-road construction vehicles, diesel electrical generators, and various pieces of stationary construction equipment.	Some short-term (acute) effects of DPM exposure include eye, nose, throat, and lung irritation, coughs, headaches, light-headedness, and nausea. Studies have linked elevated particle levels in the air to increased hospital admissions, emergency room visits, asthma attacks, and premature deaths among those suffering from respiratory problems. Human studies on the carcinogenicity of DPM demonstrate an increased risk of lung cancer, although the increased risk cannot be clearly attributed to diesel exhaust exposure.
VOCs	Reactive organic gases (ROGs), or VOCs, are defined as any compound of carbon—excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate—that participates in atmospheric photochemical reactions. Although there are slight differences in the definition of ROGs and VOCs, the two terms are often used interchangeably.	Indoor sources of VOCs include paints, solvents, aerosol sprays, cleansers, tobacco smoke, etc. Outdoor sources of VOCs are from combustion and fuel evaporation. A reduction in VOC emissions reduces certain chemical reactions that contribute to the formulation of ozone. VOCs are transformed into organic aerosols in the atmosphere, which contribute to higher PM_{10} and lower visibility.	Although health-based standards have not been established for VOCs, health effects can occur from exposures to high concentrations because of interference with oxygen uptake. In general, concentrations of VOCs are suspected to cause eye, nose, and throat irritation; headaches; loss of coordination; nausea; and damage to the liver, the kidneys, and the central nervous system. Many VOCs have been classified as TACs.
Benzene	Benzene is a VOC. It is a clear or colorless light-yellow, volatile, highly flammable liquid with a gasoline-like odor. The EPA has classified benzene as a "Group A" carcinogen.	Benzene is emitted into the air from fuel evaporation, motor vehicle exhaust, tobacco smoke, and from burning oil and coal. Benzene is used as a solvent for paints, inks, oils, waxes, plastic, and rubber. Benzene	Short-term (acute) exposure of high doses from inhalation of benzene may cause dizziness, drowsiness, headaches, eye irritation, skin irritation, and respiratory tract irritation, and at higher levels, loss of

Toxic Air Contaminant	Physical Description and Properties	Sources	Most Relevant Effects from Pollutant Exposure
		occurs naturally in gasoline at 1 to 2 percent by volume. The primary route of human exposure is through inhalation.	consciousness can occur. Long-term (chronic) occupational exposure of high doses has caused blood disorders, leukemia, and lymphatic cancer.
Asbestos	Asbestos is the name given to a number of naturally occurring fibrous silicate minerals that have been mined for their useful properties such as thermal insulation, chemical and thermal stability, and high tensile strength. The three most common types of asbestos are chrysotile, amosite, and crocidolite.	Chrysotile, also known as white asbestos, is the most common type of asbestos found in buildings. Chrysotile makes up approximately 90 to 95 percent of all asbestos contained in buildings in the United States.	Exposure to asbestos is a health threat; exposure to asbestos fibers may result in health issues such as lung cancer, mesothelioma (a rare cancer of the thin membranes lining the lungs, chest, and abdominal cavity), and asbestosis (a non-cancerous lung disease that causes scarring of the lungs). Exposure to asbestos can occur during demolition or remodeling of buildings that were constructed prior to the 1977 ban on asbestos for use in buildings. Exposure to naturally occurring asbestos can occur during soil-disturbing activities in areas with deposits present.
Hydrogen Sulfide	Hydrogen sulfide (H_2S) is a flammable, colorless, poisonous gas that smells like rotten eggs.	Manure, storage tanks, ponds, anaerobic lagoons, and land application sites are the primary sources of hydrogen sulfide. Anthropogenic sources include the combustion of sulfur containing fuels (oil and coal).	High levels of hydrogen sulfide can cause immediate respiratory arrest. It can irritate the eyes and respiratory tract and cause headache, nausea, vomiting, and cough. Long exposure can cause pulmonary edema.
Sulfates	Sulfates occur in combination with metal and/or hydrogen ions. Many sulfates are soluble in water.	Sulfates are particulates formed through the photochemical oxidation of sulfur dioxide. In California, the main source of sulfur compounds is combustion of gasoline and diesel fuel.	(a) Decrease in ventilatory function; (b) aggravation of asthmatic symptoms; (c) aggravation of cardiopulmonary disease; (d) vegetation damage; (e) degradation of visibility; (f) property damage.

Toxic Air Contaminant	Physical Description and Properties	Sources	Most Relevant Effects from Pollutant Exposure
Visibility-Reducing Particles	Suspended particulate matter is a mixture of small particles that consist of dry solid fragments, droplets of water, or solid cores with liquid coatings. The particles vary in shape, size, and composition. PM_{10} refers to particulate matter that is between 2.5 and 10 microns in diameter (1 micron is one-millionth of a meter). $PM_{2.5}$ refers to particulate matter that is 2.5 microns or less in diameter, about one-thirtieth the size of the average human hair.	Stationary sources include fuel or wood combustion for electrical utilities, residential space heating, and industrial processes; construction and demolition; metals, minerals, and petrochemicals; wood products processing; mills and elevators used in agriculture; erosion from tilled lands; waste disposal; and recycling. Mobile or transportation-related sources are from vehicle exhaust and road dust. Secondary particles form from reactions in the atmosphere.	Short-term exposure (hours/days): irritation of the eyes, nose, throat; coughing; phlegm; chest tightness; shortness of breath; aggravates existing lung disease, causing asthma attacks and acute bronchitis; those with heart disease can suffer heart attacks and arrhythmias. Long-term exposure: reduced lung function; chronic bronchitis; changes in lung morphology; death.
Vinyl Chloride	Vinyl chloride, or chloroethene, is a chlorinated hydrocarbon and a colorless gas with a mild, sweet odor. In 1990, the California Air Resources Board (ARB) identified vinyl chloride as a toxic air contaminant and estimated a cancer unit risk factor.	Most vinyl chloride is used to make polyvinyl chloride plastic and vinyl products, including pipes, wire and cable coatings, and packaging materials. It can be formed when plastics containing these substances are left to decompose in solid waste landfills. Vinyl chloride has been detected near landfills, sewage plants, and hazardous waste sites.	Short-term exposure to high levels of vinyl chloride in the air causes central nervous system effects, such as dizziness, drowsiness, and headaches. Epidemiological studies of occupationally exposed workers have linked vinyl chloride exposure to development of a rare cancer, liver angiosarcoma, and have suggested a relationship between exposure and lung and brain cancers.
Lead (Pb)	Lead is a solid heavy metal that can exist in air pollution as an aerosol particle component. Leaded gasoline was used in motor vehicles until around 1970. Lead concentrations have not exceeded State or federal standards at any monitoring station since 1982.	Lead ore crushing, lead ore smelting, and battery manufacturing are currently the largest sources of lead in the atmosphere in the United States. Other sources include dust from soils contaminated with lead-based paint, solid waste disposal, and crustal physical weathering.	Lead accumulates in bones, soft tissue, and blood and can affect the kidneys, liver, and nervous system. It can cause impairment of blood formation and nerve conduction, behavior disorders, mental retardation, neurological impairment, learning deficiencies, and low IQs.

Toxic Air Contaminant	Physical Description and Properties	Sources	Most Relevant Effects from Pollutant Exposure

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Air Quality

Air quality is a function of both the rate and location of pollutant emissions under the influence of meteorological conditions and topographic features. Atmospheric conditions such as wind speed, wind direction, and air temperature inversions interact with the physical features of the landscape to determine the movement and dispersal of air pollutant emissions and, consequently, their effect on air quality.

Regional Air Quality

The Bay Area Air Quality Management District (BAAQMD) is the regional agency regulating air quality within the nine-county SFBAAB. The SFBAAB includes Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, and Santa Clara counties, the western portion of Solano County, and the southern portion of Sonoma County.

Air Pollutant Standards and Attainment Designations

Air pollutant standards have been adopted by the EPA and the ARB for the following six criteria air pollutants that affect ambient air quality: ozone, NO_2, CO, SO_2, lead, and PM, which is subdivided into two classes based on particle size: PM with aerodynamic diameters equal to or less than 10 microns (PM_{10}), and PM with aerodynamic diameters equal to or less than 2.5 microns ($PM_{2.5}$). These air pollutants are called "criteria air pollutants" because they are regulated by developing specific public health- and welfare-based criteria as the basis for setting permissible levels. California has also established standards for TACs such as visibility-reducing particles, sulfates, hydrogen sulfide, and vinyl chloride. Table 3 presents the National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) for these aforementioned air pollutants. Note that there are no State or federal ambient air quality standards for reactive organic gases (ROGs), benzene, or DPM.

Table 3: Federal and State Air Quality Standards in the San Francisco Bay Area Air Basin

Air Pollutant	Averaging Time	California Standard (CAAQS)	Federal Standard[a] (NAAQS)
Ozone	1 Hour	0.09 ppm	—
	8 Hours	0.070 ppm	0.070 ppm[f]
Nitrogen dioxide[b] (NO_2)	1 Hour	0.18 ppm	0.100 ppm
	Annual	0.030 ppm	0.053 ppm
Carbon monoxide (CO)	1 Hour	20 ppm	35 ppm
	8 Hours	9.0 ppm	9 ppm
Sulfur dioxide[c] (SO_2)	1 Hour	0.25 ppm	0.075 ppm
	3 Hours	—	0.5 ppm
	24 Hours	0.04 ppm	0.14 (for certain areas)
	Annual	—	0.030 ppm (for certain areas)
Lead[e]	30-day	1.5 µg/m^3	—
	Quarter	—	1.5 µg/m^3
	Rolling 3-month average	—	0.15 µg/m^3
Particulate matter (PM_{10})	24 hours	50 µg/m^3	150 µg/m^3
	Mean	20 µg/m^3	—
Particulate matter ($PM_{2.5}$)	24 Hours	—	35 µg/m^3
	Annual	12 µg/m^3	12.0 µg/m^3
Visibility-reducing particles	8 Hours	See note below[d]	
Sulfates	24 Hours	25 µg/m^3	—
Hydrogen sulfide	1 Hour	0.03 ppm	—
Vinyl chloride[e]	24 Hours	0.01 ppm	—

Air Pollutant	Averaging Time	California Standard (CAAQS)	Federal Standard[a] (NAAQS)

Notes:
ppm = parts per million (concentration)
µg/m^3 = micrograms per cubic meter Annual = Annual Arithmetic Mean
30-day = 30-day average
Quarter = Calendar quarter

a Federal standard refers to the primary National Ambient Air Quality Standard (NAAQS), or the levels of air quality necessary, with an adequate margin of safety to protect the public health. All standards listed are primary standards except for 3-Hour SO_2, which is a secondary standard. A secondary standard is the level of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

b To attain the 1-hour nitrogen dioxide national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 parts per billion (0.100 ppm).

c On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 part per billion (ppb). The 1971 SO_2 national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

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

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

f The EPA Administrator approved a revised 8-hour ozone standard of 0.07 ppb on October 1, 2015. The new standard went into effect 60 days after publication the Final Rule in the Federal Register. The Final Rule was published in the Federal Register on October 26, 2015, and became effective on December 28, 2015.

Source:
California Air Resources Board (ARB). 2016. Ambient Air Quality Standards. May 4. Website: https://ww2.arb.ca.gov/sites/default/files/2020-07/aaqs2.pdf. Accessed June 3, 2022.

Air quality monitoring stations operated by the ARB and BAAQMD measure ambient air pollutant concentrations in the SFBAAB. In general, the SFBAAB experiences low concentrations of most pollutants compared to federal or State standards.

Both the EPA and ARB use ambient air quality monitoring data to designate areas according to their attainment status for criteria air pollutants. These designations identify the areas with air quality problems and initiate planning efforts for improvement. The three basic designation categories are nonattainment, attainment, and unclassified. "Attainment" status refers to those regions that are meeting federal and/or State standards for a specified criteria pollutant. "Nonattainment" refers to regions that do not meet federal and/or State standards for a specified criteria pollutant. "Unclassified" refers to regions with insufficient data to determine the region's attainment status for a specified criteria air pollutant. Each standard has a different definition, or "form" of what constitutes attainment, based on specific air quality statistics. For example, the federal 8-hour CO standard is not to be exceeded more than once per year; therefore, an area is in attainment of the CO standard if no more than one 8-hour ambient air monitoring values exceeds the threshold per year. In contrast, the federal annual $PM_{2.5}$ standard is met if the 3-year average of the annual average $PM_{2.5}$ concentration is less than or equal to the standard.

Table 4 shows the current attainment designations for the SFBAAB. The SFBAAB is designated as nonattainment for the State ozone, PM_{10}, and $PM_{2.5}$ standards, and the national ozone and $PM_{2.5}$ standards.

Table 4: San Francisco Bay Area Air Basin Attainment Status

Pollutant	State Status	National Status
Ozone	Nonattainment	Nonattainment
CO	Attainment	Attainment
NO_2	Attainment	Attainment
SO_2	Attainment	N/A
PM_{10}	Nonattainment	Unclassified
$PM_{2.5}$	Nonattainment	Nonattainment
Sulfates	Attainment	N/A
Hydrogen Sulfates	Unclassified	N/A
Visibility-reducing Particles	Unclassified	N/A
Lead	N/A	Attainment

Notes:
N/A = information not available.
Source: Bay Area Air Quality Management District (BAAQMD). 2017. Air Quality Standards and Attainment Status. January 5. Website: http://www.baaqmd.gov/research-and-data/air-quality-standards-and-attainment-status. Accessed June 3, 2022.

Air Quality Index

The health impacts of the various air pollutants of concern can be presented in a number of ways. The clearest comparison is to the State and federal ozone standards. If concentrations are below the standard, it is safe to say that no health impact would occur to anyone. When concentrations exceed the standard, impacts will vary based on the amount by which the standard is exceeded. The EPA developed the Air Quality Index (AQI) as an easy-to-understand measure of health impacts compared with concentrations in the air. Table 5 provides a general description of the health impacts of ozone at different concentrations.

Table 5: Air Quality Index and Health Effects from Ozone

Air Quality Index/ 8-hour Ozone Concentration	Health Effects Description
AQI—0–50—Good Concentration 0–54 ppb	**Sensitive Groups**: Children and people with asthma are the groups most at risk.
	Health Effects Statements: None.
	Cautionary Statements: None.

Air Quality Index/ 8-hour Ozone Concentration	Health Effects Description
AQI—51–100—Moderate Concentration 55–70 ppb	**Sensitive Groups**: Children and people with asthma are the groups most at risk.
	Health Effects Statements: Unusually sensitive individuals may experience respiratory symptoms.
	Cautionary Statements: Unusually sensitive people should consider limiting prolonged outdoor exertion.
AQI—101–150—Unhealthy for Sensitive Groups Concentration 71–85 ppb	**Sensitive Groups**: Children and people with asthma are the groups most at risk.
	Health Effects Statements: Increasing likelihood of respiratory symptoms and breathing discomfort in active children and adults, and people with respiratory disease, such as asthma.
	Cautionary Statements: Active children and adults, and people with respiratory disease, such as asthma, should limit prolonged outdoor exertion.
AQI—151–200—Unhealthy Concentration 86–105 ppb	**Sensitive Groups**: Children and people with asthma are the groups most at risk.
	Health Effects Statements: Greater likelihood of respiratory symptoms and breathing difficulty in active children and adults and people with respiratory disease, such as asthma; possible respiratory effects in general population.
	Cautionary Statements: Active children and adults, and people with respiratory disease, such as asthma, should avoid prolonged outdoor exertion; everyone else, especially children, should limit prolonged outdoor exertion.
AQI—201–300—Very Unhealthy Concentration 106–200 ppb	**Sensitive Groups**: Children and people with asthma are the groups most at risk.
	Health Effects Statements: Increasingly severe symptoms and impaired breathing likely in active children and adults and people with respiratory disease, such as asthma; increasing likelihood of respiratory effects in general population.
	Cautionary Statements: Active children and adults, and people with respiratory disease, such as asthma, should avoid all outdoor exertion; everyone else, especially children, should limit outdoor exertion.
Source: Air Now. n.d. AQI Calculator: AQI to Concentration Calculator. Website: https://www.airnow.gov/aqi/aqi-calculator. Accessed June 3, 2022.	

Local Air Quality

Air quality is a function of both the rate and location of pollutant emissions under the influence of meteorological conditions and topographic features. Atmospheric conditions such as wind speed, wind direction, and air temperature inversions interact with the physical features of the landscape to determine the movement and dispersal of air pollutant emissions and, consequently, their effect on air quality.

Existing levels of ambient air quality and historical trends and projections in the vicinity of San Leandro are best documented by measurements made by the BAAQMD. The air quality monitoring station closest to San Leandro is the Oakland-9925 International Boulevard Monitoring Station. Data from this station are summarized in Table 6; however, for the years 2019 through 2021, no stations in Alameda County monitored PM_{10}, SO_2, CO, or NO_2. Therefore, the State and federal standards for those pollutants are presumed to not have been exceeded at stations in the County during this time. The data show that the area regularly exceeded the federal $PM_{2.5}$ standard and occasionally exceeded the State O_3 standard.

Table 6: Air Quality Monitoring Summary

Air Pollutant	Averaging Time	Item	2019	2020	2021
Ozone	1 Hour	Max 1-Hour (ppm)	0.098	0.090	0.090.083
		Days > State Standard (0.09 ppm)	1	0	0
	8 Hour	Max 8-Hour (ppm)	0.073	0.066	0.061
		Days > State Standard (0.07 ppm)	2	0	0
		Days > National Standard (0.070 ppm)	2	0	0
CO	8 Hour	Max 8-Hour (ppm)	ND	ND	ND
		Days > State Standard (9.0 ppm)	ND	ND	ND
		Days > National Standard (9 ppm)	ND	ND	ND
NO_2	Annual	Annual Average (ppm)	0.009	0.009	0.008
	1 Hour	Max 1-Hour (ppm)	0.062	0.059	0.049
		Days > State Standard (0.18 ppm)	0	0	0
SO_2	Annual	Annual Average (ppm)	ND	ND	ND
	24 Hour	Max 24-Hour (ppm)	ND	ND	ND
		Days > State Standard (0.04 ppm)	ND	ND	ND
Inhalable coarse particles (PM_{10})	Annual	Annual Average (µg/m^3)	ND	ND	ND
	24 Hour	Max 24-Hour (µg/m^3)	ND	ND	ND
		Days > State Standard (50 µg/m^3) (3)	ND	ND	ND
		Days > National Standard (150 µg/m^3)	ND	ND	ND
Fine particulate matter ($PM_{2.5}$)	Annual	Annual Average (µg/m^3)	6.7	11.4	8.0
	24 Hour	Max 24-Hour (µg/m^3)	24.7	167.7	33.0
		Days > National Standard (35 µg/m^3)	0	11	0

Notes:
> = exceed
µg/m^3 = micrograms per cubic meter
Bold = exceedance
ID = insufficient data
max = maximum
National Standard = National Ambient Air Quality Standard (NAAQS).

Air Pollutant	Averaging Time	Item	2019	2020	2021
ND = no data ppm = parts per million State Standard = California Ambient Air Quality Standard (CAAQS). Source: California Air Resources Board (ARB). 2022. iAdam Air Quality Data Statistics (2019, 2020, 2021). Website: https://www.arb.ca.gov/adam/topfour/topfour1.php. Accessed January 19, 2023.					

Sensitive Receptors

Air pollution does not affect every individual in the population in the same way, and some groups are more sensitive to adverse health effects than others are. Land uses such as residences, schools, day care centers, hospitals, nursing and convalescent homes, and parks are considered the most sensitive to poor air quality because the population groups associated with these uses have increased susceptibility to respiratory distress or, as in the case of residential receptors, their exposure time is greater than that for other land uses. Therefore, these groups are referred to as sensitive receptors. Exposure assessment guidance typically assumes that residences would receive exposure to air pollution 24 hours per day, 350 days per year, for 30 years. The BAAQMD defines sensitive receptors as children, adults, and seniors occupying or residing in residential dwellings, schools, day care centers, hospitals, and senior care facilities.

Project Vicinity–Sensitive Receptors

The closest off-site air pollution sensitive receptors near the project site in each direction include the following:

- Single-family residences approximately 500 feet southwest of the project site.
- Single-family residences approximately 730 feet south of the project site.
- Single-family residences approximately 950 feet northeast of the project site.
- Multi-family residences approximately 960 feet east of the project site.

Project Vicinity–Community Pollutant Sources

The primary sources of air pollutants (both criteria air pollutant and TACs) in the project site vicinity include the various other surrounding industrial properties, building-related energy use, and motor-related vehicle trips associated with the local business use, particularly from the Union Pacific Railroad Company. The project site is adjacent to Union Pacific railroad tracks, approximately 3,000 feet northeast of Interstate 880 (I-880), and 5,000 feet southwest of Interstate 580 (I-580). Other activities that result in emissions include space and water heating, landscape maintenance, and any surrounding industrial uses that can store, produce, decommission, or otherwise handle hazardous materials.

2.2 - Greenhouse Gas Emissions

2.2.1 - Greenhouse Effect, Global Warming, and Climate Change

Most of the energy that affects the Earth's climate comes from the sun. Some solar radiation is absorbed by the Earth's surface, and a smaller portion of this radiation is reflected by the atmosphere back toward space. As the Earth absorbs high-frequency solar radiation, its surface gains heat and then re-radiates lower frequency infrared radiation back into the atmosphere.[3]

Most solar radiation passes through gases in the atmosphere classified as greenhouse gas (GHG) emissions; however, infrared radiation is selectively absorbed by GHGs. GHGs in the atmosphere play a critical role in maintaining the balance between the Earth's absorbed and radiated energy, the Earth's radiation budget,[4] by trapping some of the infrared radiation emitted from the Earth's surface that otherwise would have escaped to space (Figure 1). Radiative forcing is the difference between the incoming energy and outgoing energy.[5] Specifically, GHGs affect the atmosphere's radiative forcing,[6] which in turn affects the Earth's average surface temperature. This phenomenon, the *greenhouse effect*, keeps the Earth's atmosphere near the surface warmer than it would be otherwise and allows successful habitation by humans and other forms of life.

Combustion of fossil fuels and deforestation release carbon into the atmosphere that historically has been stored underground in sediments or in surface vegetation, thus exchanging carbon from the geosphere and biosphere to the atmosphere in the carbon cycle. With the accelerated increase in fossil fuel combustion and deforestation since the Industrial Revolution of the nineteenth century, concentrations of GHGs in the atmosphere have increased exponentially. Such emissions of GHGs in excess of natural ambient concentrations contribute to the enhancement of the natural greenhouse effect. This enhanced greenhouse effect has contributed to *global warming*, an increased rate of warming of the Earth's average surface temperature.[7] Specifically, increases in GHGs lead to increased absorption of infrared radiation by the Earth's atmosphere and warm the lower atmosphere further, thereby increasing temperatures and evaporation rates near the surface.

Variations in natural phenomena such as volcanoes and solar activity produced most of the global temperature increase that occurred during preindustrial times; more recently, however, increasing atmospheric GHG concentrations resulting from human activity have been responsible for most of the observed global temperature increase.[8]

[3] Frequencies at which bodies emit radiation are proportional to temperature. The Earth has a much lower temperature than the sun and emits radiation at a lower frequency (longer wavelength) than the high-frequency (short-wavelength) solar radiation emitted by the sun.

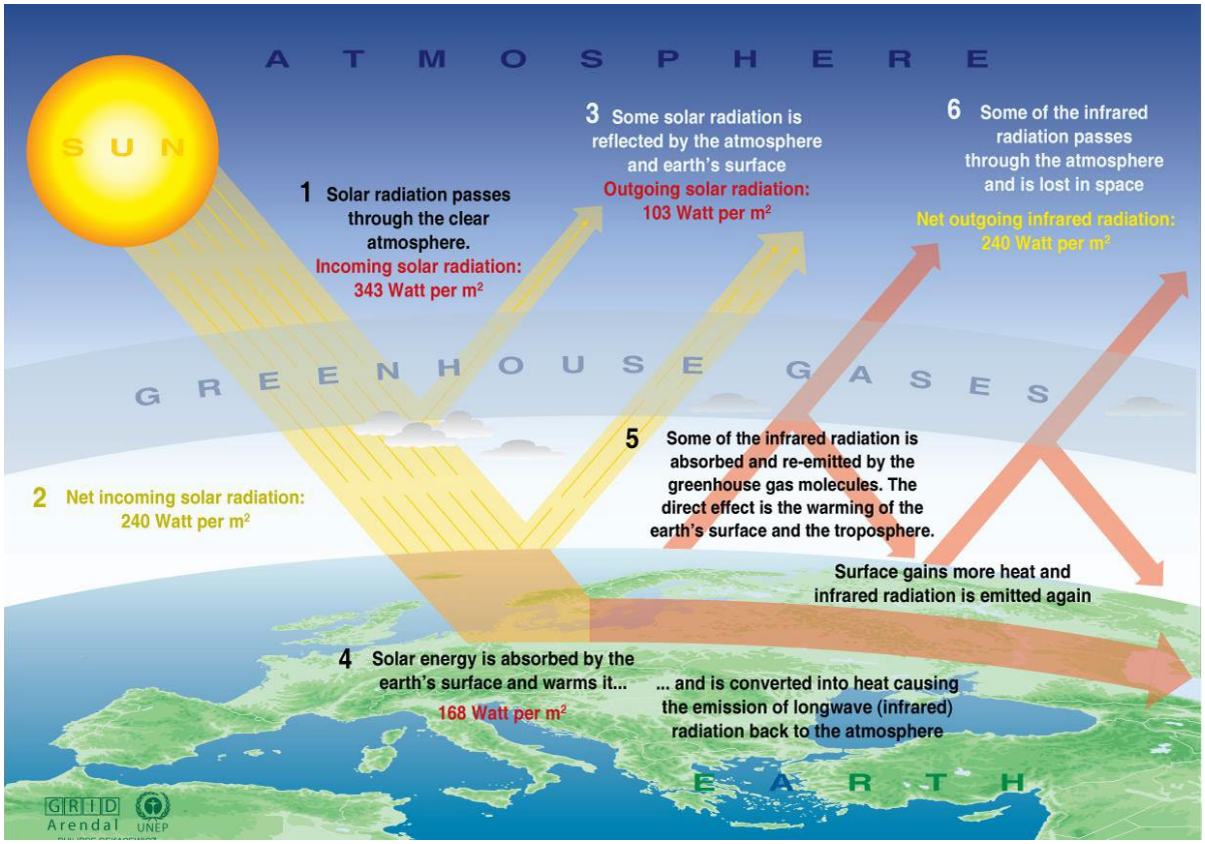
[4] This includes all gains of incoming energy and all losses of outgoing energy; the planet is always striving to be in equilibrium.

[5] Positive forcing tends to warm the surface while negative forcing tends to cool it.

[6] This is the change in net irradiance at the tropopause after allowing stratospheric temperatures to readjust to radiative equilibrium, but with surface and tropospheric temperatures and state held fixed at the unperturbed values.

[7] This condition results when the Earth has to work harder to maintain its radiation budget, because when more GHGs are present in the atmosphere, the Earth must force emissions of additional infrared radiation out into the atmosphere.

[8] These basic conclusions have been endorsed by more than 45 scientific societies and academies of science, including all of the national academies of science of the major industrialized countries. Since 2007, no scientific body of national or international standing has maintained a dissenting opinion.



Source: Philippe Rekacewicz, UNEP/GRID-Arendal. Website: https://www.grida.no/resources/6467. Accessed June 10, 2022.

Figure 1: The Greenhouse Effect

Global warming affects global atmospheric circulation and temperatures; oceanic circulation and temperatures; wind and weather patterns; average sea level; ocean acidification; chemical reaction rates; precipitation rates, timing, and form; snowmelt timing and runoff flow; water supply; wildfire risks; and other phenomena, in a manner commonly referred to as *climate change*. Climate change is a change in the average weather of the Earth that is measured by alterations in wind patterns, storms, precipitation, and temperature. These changes are assessed using historical records of temperature changes occurring in the past, such as during previous ice ages. Many of the concerns regarding climate change use this data to extrapolate a level of statistical significance specifically focusing on temperature records from the last 150 years (the Industrial Age) that differ from previous climate changes in rate and magnitude.

Greenhouse Gases and Global Emission Sources

Gases that trap heat in the atmosphere are referred to as GHGs. The effect is analogous to the way a greenhouse retains heat. Prominent GHGs that naturally occur in the Earth's atmosphere are water vapor, carbon dioxide (CO_2), methane (CH_4), oxides of nitrogen (NO_X), and ozone. Anthropogenic (human-caused) GHG emissions include releases of these GHGs plus release of human-made gases with high Global Warming Potential (GWP) (ozone-depleting substances such as chlorofluorocarbons (CFCs)[9] and aerosols, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride

[9] CFCs destroy stratospheric ozone. The Montreal Protocol on Substances that Deplete the Ozone Layer prohibited CFCs production in 1987.

(SF_6). The GHGs listed by the IPCC (CO_2, methane, nitrous oxide, HFCs, PFCs, and sulfur hexafluoride) are discussed below, in order of abundance in the atmosphere. Water vapor, despite being the most abundant GHG, is not discussed below because natural concentrations and fluctuations far outweigh anthropogenic influences, making it impossible to predict. Ozone is not included because it does not directly affect radiative forcing. Ozone-depleting substances, which include chlorofluorocarbons, halons, carbon tetrachloride, methyl chloroform, and hydrochlorofluorocarbons, are not included because they have been primarily replaced by HFCs and PFCs.

The GWP is the potential of a gas or aerosol to trap heat in the atmosphere. The GWP of a gas is essentially a measurement of the radiative forcing of a GHG compared with the reference gas, carbon dioxide (CO_2).

Individual GHG compounds have varying potential for contributing to global warming. For example, methane is 25 times as potent as CO_2, while sulfur hexafluoride is 22,200 times more potent than CO_2 on a molecule-per-molecule basis. To simplify reporting and analysis, methods have been set forth to describe emissions of GHGs in terms of a single gas. The most commonly accepted method for comparing GHG emissions is the GWP methodology defined in the IPCC reference documents (IPCC, 2001a). The IPCC defines the GWP of various GHG emissions on a normalized scale that recasts all GHG emissions in terms of carbon dioxide equivalents (CO_2e), which compares the gas in question to that of the same mass of CO_2 (by definition, CO_2 has a GWP of 1). The GWP of a GHG is a measure of how much a given mass of a GHG is estimated to contribute to global warming. Thus, to describe how much global warming a given type and amount of GHG may cause, the CO_2e is used. A CO_2e is the mass emissions of an individual GHG multiplied by its GWP. As such, a high GWP represents high absorption of infrared radiation and a long atmospheric lifetime compared to CO_2. One must also select a time horizon to convert GHG emissions to equivalent CO_2 emissions to account for chemical reactivity and lifetime differences among various GHG species. The standard time horizon for climate change analysis is 100 years. Generally, GHG emissions are quantified in terms of metric tons (MT) of CO_2e (MT CO_2e) emitted per year.

The atmospheric residence time of a gas is equal to the total atmospheric abundance of the gas divided by its rate of removal.[10] The atmospheric residence time of a gas is, in effect, a half-life measurement of the length of time a gas is expected to persist in the atmosphere when accounting for removal mechanisms such as chemical transformation and deposition.

Table 7 lists the GWP of each GHG and its lifetime. Units commonly used to describe the concentration of GHGs in the atmosphere are parts per million (ppm), parts per billion (ppb), and parts per trillion (ppt), referring to the number of molecules of the GHG in a sampling of 1 million, 1 billion, or 1 trillion molecules of air. Collectively, HFCs, PFCs, and sulfur hexafluoride are referred to as high GWP gases. CO_2 is by far the largest component of worldwide CO_2e emissions, followed by methane, nitrous oxide, and high GWP gases, in order of decreasing contribution to CO_2e.

[10] Seinfeld, J.H. and S.N. Pandis. 2006. Atmospheric Chemistry and Physics: From Air Pollution to Climate Change, 2nd Edition. New York. John Wiley & Sons.

The primary human processes that release GHGs include the burning of fossil fuels for transportation, heating, and electricity generation; agricultural practices that release methane, such as livestock grazing and crop residue decomposition; and industrial processes that release smaller amounts of high GWP gases. Deforestation and land cover conversion have also been identified as contributing to global warming by reducing the Earth's capacity to remove CO_2 from the air and altering the Earth's albedo or surface reflectance, thus allowing more solar radiation to be absorbed. Specifically, CO_2 emissions associated with fossil fuel combustion are the primary contributors to human-induced climate change. CO_2, methane, and nitrous oxide emissions associated with human activities are the next largest contributors to climate change.

GHGs of California concern are defined by California Assembly Bill (AB) 32 (see the Regulatory Environment subsection below for a description) and include CO_2, CH_4, NO_X, HFCs, PFCs, and SF_6. A seventh GHG, nitrogen trifluoride (NF_3), was also added under the California Health and Safety Code Section 38505(g)(7) as a GHG of concern. These GHGs are described in Table 7 in terms of their physical description and properties, GWP, atmospheric residence lifetime, sources, and atmospheric concentration in 2005.

Table 7: Description of Greenhouse Gases of California Concern

Greenhouse Gas	Physical Description and Properties	Global Warming Potential (100 years)	Atmospheric Residence Lifetime (years)	Sources
Carbon dioxide (CO_2)	Odorless, colorless, natural gas.	1	50-200	burning coal, oil, natural gas, and wood; decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; oceanic evaporation; volcanic outgassing; cement production; land use changes
Methane (CH_4)	Flammable gas and is the main component of natural gas.	25	12	geological deposits (natural gas fields) extraction; landfills; fermentation of manure; and decay of organic matter
Nitrous oxide (N_2O)	Nitrous oxide (laughing gas) is a colorless GHG.	298	114	microbial processes in soil and water; fuel combustion; industrial processes
Chloro-fluoro-carbons (CFCs)	Nontoxic, nonflammable, insoluble, and chemically unreactive in the	3,800-8,100	45-640	refrigerants aerosol propellants; cleaning solvents

Greenhouse Gas	Physical Description and Properties	Global Warming Potential (100 years)	Atmospheric Residence Lifetime (years)	Sources
	troposphere (level of air at the Earth's surface); formed synthetically by replacing all hydrogen atoms in methane or ethane with chlorine and/or fluorine atoms.			
Hydro-fluoro-carbons (HFCs)	Synthetic human-made chemicals used as a substitute for CFCs and contain carbon, chlorine, and at least one hydrogen atom.	140 to 11,700	1-50,000	automobile air conditioners; refrigerants
Per-fluoro-carbons (PFCs)	Stable molecular structures and only break down by ultraviolet rays about 60 kilometers above Earth's surface.	6,500 to 9,200	10,000-50,000	primary aluminum production; semiconductor manufacturing
Sulfur hexafluoride (SF_6)	Human-made, inorganic, odorless, colorless, and nontoxic, nonflammable gas.	22,800	3,200	electrical power transmission equipment insulation; magnesium industry, semiconductor manufacturing; a tracer gas
Nitrogen trifluoride (NF_3)	Inorganic, is used as a replacement for PFCs, and is a powerful oxidizing agent.	17,200	740	electronics manufacture for semiconductors and liquid crystal displays

Sources:
Intergovernmental Panel on Climate Change (IPCC).2007. Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change (Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller [eds.]). Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.

Intergovernmental Panel on Climate Change (IPCC). 2014. Climate Change 2014: Synthesis Report. Contribution of Working Groups I, II and III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (Core Writing Team, Pachauri, R.K. and Reisinger, A. [eds.]). IPCC, Geneva, Switzerland.

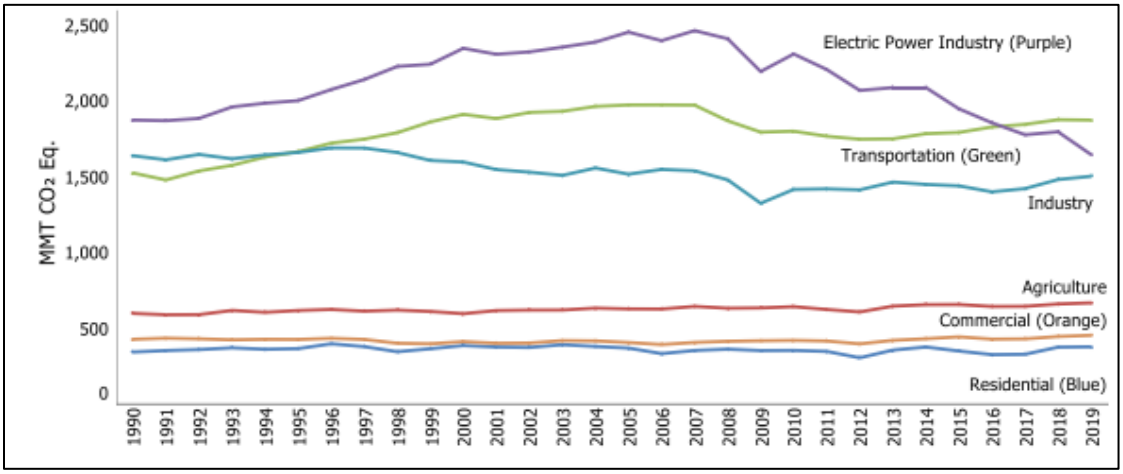
Climate and Topography

Climate is the accumulation of daily and seasonal weather events over a long period of time, whereas weather is defined as the condition of the atmosphere at any particular time and place. For a detailed discussion of existing regional and project site climate and topography, see Section 3.2, Air Quality.

Existing GHG Emissions

United States GHG Inventory

Total U.S. GHG emissions have increased by 1.8 percent from 1990 to 2019.[11] Figure 2 presents the trend in U.S. GHG emissions by economic sector from 1990 to 2019. Total U.S. GHG emissions increased by 2.8 percent from 1990 to 2019 (an increase of 142.4 million metric tons [MMT] CO_2e). Since 1990, U.S. emissions have increased at an average annual rate of 0.3 percent. Transportation emissions also increased because of an increase in Vehicle Miles Traveled (VMT). Within the United States, fossil fuel combustion accounted for 92.4 percent of CO_2 emissions in 2019. Transportation was the largest emitter of CO_2 in 2019, accounting for 28.6 percent of emissions, followed by electric power generation, accounting for 25.1 percent.



Note: Emissions shown do not include carbon sinks such as change in land uses and forestry.
Source: United States Environmental Protection Agency (EPA). 2021. Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2019–Executive Summary.

Figure 2: U.S. Greenhouse Gas Emissions Allocated to Economic Sectors (1990-2019)

California GHG Inventory

As the second largest emitter of GHG emissions in the United States., California contributes a large quantity (418.2 MMT CO_2e in 2019) of GHG emissions to the atmosphere.[12,13] Human-related emissions of CO_2 are largely byproducts of fossil fuel combustion and are attributable to transportation, industry/ manufacturing, electricity generation, natural gas consumption, and agriculture processes. In California, the transportation sector is the largest emitter at 41 percent of GHG emissions, followed by industrial at 24 percent of GHG emissions.[14]

Bay Area Air Quality Management District GHG Inventory

The BAAQMD prepared a GHG inventory for the San Francisco Bay Area (Bay Area), which provides an estimate of GHG emissions in the base year 2011 for all counties located in the jurisdiction of

[11] United States Environmental Protection Agency (EPA). 2021. Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2019 – Executive Summary.
[12] World Resources Institute (WRI). 2017. 8 Charts to Understand US State Greenhouse Gas Emissions. Website: https://www.wri.org/insights/8-charts-understand-us-state-greenhouse-gas-emissions. Accessed June 3, 2022.
[13] California Air Resources Board (ARB). 2021. Current California GHG Emission Inventory Data, 2000-2019 Trends Figure Data. Website: https://ww2.arb.ca.gov/ghg-inventory-data. Accessed June 3, 2022.
[14] California Air Resources Board (ARB). 2018. California Greenhouse Gas Emissions for 2000 to 2019—Graphs. July 28.

BAAQMD: Alameda, Contra Costa, Marin, San Francisco, San Mateo, Santa Clara, Napa, and the southern portions of Solano and Sonoma.[15] This GHG inventory is based on the standards for criteria pollutant inventories and is intended to support BAAQMD's climate protection activities.

Table 8 shows the 2011 breakdown of emissions by end-use sector for each county within the BAAQMD's jurisdiction. 2011 GHG emissions are provided here as they are the most recent region-wide inventory currently available. The estimated GHG emissions are presented in CO_2e, which weights each GHG by its GWP. The GWPs used in the BAAQMD inventory are from the Second Assessment Report of the IPCC.

In 2011, GHG emissions from Alameda County accounted for approximately 15 percent of the Bay Area's total GHG emissions (13.2 MMT CO_2e out of 86.6 MMT CO_2e).[16] Transportation is the largest GHG emissions sector in the County, followed by industrial/commercial, residential fuel usage, electricity generation and cogeneration, off-road equipment, and agriculture and farming, in that order.

Table 8: 2011 GHG Emissions by Sector and County (MMT CO_2e/Year)

Sector	Alameda	Contra Costa	Marin	Napa	San Francisco	San Mateo	Santa Clara	Solano*	Sonoma*
Industrial/Commercial	2.7	17.8	0.4	0.2	1.2	1.4	4.1	2.7	0.5
Residential Fuel	1.3	1.0	0.3	0.1	0.9	0.8	1.5	0.3	0.4
Electricity/Co-gen.	0.9	7.2	0.1	0.1	0.5	0.4	2.2	0.4	0.2
Off-road Equipment	0.2	0.2	0.0	0.0	0.2	0.1	0.4	0.0	0.1
Transportation	7.9	5.0	1.3	0.9	3.0	5.0	7.6	1.6	2.0
Agriculture/Farming	0.1	0.2	0.2	0.1	0.0	0.0	0.2	0.1	0.2
Total	**13.2**	**31.4**	**2.4**	**1.5**	**5.7**	**7.7**	**16.0**	**5.1**	**3.5**

Notes:
BAAQMD = Bay Area Air Quality Management District
CO_2e = carbon dioxide equivalent
co-gen = cogeneration
* Portion within BAAQMD jurisdiction
Source: Bay Area Air Quality Management District. (BAAQMD). 2015. Bay Area Emissions Inventory Summary Report: Greenhouse Gases–Base Year 2011. January.

City of San Leandro

The City of San Leandro Climate Action Plan summarizes the City's community-wide GHG emissions. Table 9 summarizes the Climate Action Plan GHG inventory.

[15] Bay Area Air Quality Management District. (BAAQMD). 2015. Bay Area Emissions Inventory Summary Report: Greenhouse Gases-Base Year 2011. January.
[16] Bay Area Air Quality Management District. (BAAQMD). 2015. Bay Area Emissions Inventory Summary Report: Greenhouse Gases-Base Year 2011. January

Table 9: City of San Leandro GHG Emissions

Sector	2005 MT CO_2e	2010 MT CO_2e	2015 MT CO_2e	2017 MT CO_2e
Transportation	363,550	372,220	353,130	344,920
Nonresidential Energy	182,950	146,600	96,940	88,620
Residential Energy	101,760	100,650	83,830	73,320
Waste	46,910	40,080	38,880	34,860
Off-Road	23,190	22,860	30,940	26,970
BART	2,920	3,030	3,720	3,710
Water and Wastewater	–	2,410	2,470	1,820
Total	**720,990**	**687,860**	**609,460**	**573,580**

Climate Change Trends and Effects

CO_2 accounts for more than 75 percent of all anthropogenic GHG emissions, the atmospheric residence time of CO_2 is decades to centuries, and global atmospheric concentrations of CO_2 continue to increase at a faster rate than ever previously recorded. Thus, the warming impacts of CO_2 will persist for hundreds of years after mitigation is implemented to reduce GHG concentrations.

San Leandro

Climate Change Hazards in San Leandro[17]

San Leandro, like most communities in California, is expected to experience multiple direct impacts as a result of climate change, including potential flooding, sea-level rise (SLR), wildfires, drought, extreme heat, and negative effects on public health and biodiversity. Research suggests that California will experience hotter and drier conditions, reductions in winter snow and increases in winter rains, SLR, significant changes to the water cycle, and an increased occurrence of extreme weather events. Such compounded impacts will affect economic systems throughout the State, with likely ramifications in San Leandro.

Bayshore Flooding

Low-lying coastal areas, such as the Oyster Bay Regional Shoreline, San Leandro Shoreline, and Mission Bay are most susceptible to the effects of bayshore flooding. Households within the Mulford Gardens, Marina Faire, and Heron Bay neighborhoods will be affected by bayshore flooding. Low-income households may live in structures that are not waterproofed or built above the current 100-year flood elevation. Bayshore flooding can damage homes, cause mildew and mold to grow, and destroy infrastructure. The Mission Bay and Sandev mobile home parks are within the 2050 bayshore flooding area. Mobile homes are generally less resilient than conventionally built structures and more susceptible to damage. Additionally, many industrial centers are within the bayshore

[17] City of San Leandro. 2021. Climate Action Plan (CAP). Website: https://www.sanleandro.org/984/Climate-Action-Plan. Accessed June 3, 2022

flooding area. Flooding can interrupt economic activity and damage buildings or cause the release of harmful chemicals used in industrial processes. Multiple freight lines are within the bayshore flood areas in San Leandro. Coastal flooding can damage track bed and ballast material, and the entire local rail system could shut down, interrupting both freight and passenger rail services.

Water and wastewater services can be disrupted by bayshore flooding if wastewater treatment plants' functionality is disrupted. The San Leandro Water Treatment Plant is within the 2050 bayshore flooding area. Bayshore flooding can exacerbate wet weather flows into the treatment plant and prevent the plant from functioning properly. Pumps and control panels that are not waterproofed or salt-resistant could fail. Failure of treatment plants pumps could cause sewer systems to backup and potentially contaminate streams and water systems with raw sewage. Neptune, Bermuda, Catalina, and potentially other sewer lift stations are susceptible to bayshore flooding. Failure of these systems would cause direct discharge of raw sewage to the Bay. At four feet in elevation, the Wicks storm pump station is susceptible to flooding from the Bay. Storm pump stations can be hardened and protected from bayshore flooding. They can also be lifted above the flood levels. However, if inundation is consistent, pump station functionality may decline. Bayshore flooding is expected to inundate the wetland habitat in the Mission Bay area by 2050. The wildlife habitat, recreation, and flood protection that these ecosystems provide may not be able to be sustained.

Drought

A drought occurs when conditions are drier than normal for an extended period, making less water available for people and ecosystems. Droughts are a regular occurrence in California; however, scientists expect that climate change will lead to more frequent and more intense droughts Statewide. Overall, precipitation levels are expected to remain similar, with more years of extreme precipitation events. East Bay Municipal Utility District (EBMUD) obtains fresh water supplies for San Leandro and other East Bay communities from the Mokelumne River watershed in the Sierra Nevada.

Drought conditions can cause smaller streams to run dry, which can subsequently harm the plants and animal habitats within the ecosystem. In an early-century drought (2023 to 2042), the City could experience a drop in average precipitation from an average of 19.0 inches per year to an average of 16.7 inches per year, which would lower baseflows in streams from an average of 4.9 inches per day to 3.7 inches per day. In a late century drought (2051 to 2070), precipitation could also drop to an average of 16.7 inches per year and cause baseflows in streams to drop to 3.6 inches per day. Drought conditions could lower water quality and raise water temperatures, reducing dissolved oxygen levels and promoting algae growth that can harm a variety of fish species. Wetlands and riparian habitats could experience increased soil erosion, degradation of landscape quality, and loss of biological productivity.

Since wetlands act as a buffer between developed areas and San Francisco Bay, helping to protect the community from SLR and bayshore flooding, degradation of wetlands could reduce the amount of water that the ecosystem can absorb and limit the protection that the wetlands provide. Drought

conditions can also dry out vegetation, increasing its vulnerability to pests and disease and promoting wildfire conditions.

Extreme Heat

Extreme heat occurs when temperatures rise significantly above normal levels. In San Leandro, an extreme heat day occurs when temperatures reach above 88.8 degrees Fahrenheit (°F). The number of extreme heat days in San Leandro is projected to increase from 4 days historically, to an average of 12 extreme heat days per year by midcentury and an average of up to 22 extreme heat days per year by the end of the century.

Extreme heat can also occur in the form of warmer nights when temperatures do not drop overnight and provide relief from the heat. In San Leandro, a warm night occurs when the temperature remains above 60.9°F. The number of warm nights in San Leandro is projected to increase from an average of four historically, to an average of 50 warm nights per year by midcentury, and an average of up to 120 warm nights per year by the end of the century.

Extreme heat can interrupt sleep and daily activities, exacerbate respiratory and cardiovascular conditions, and cause a variety of severe health impacts and illnesses, including heat cramps, heat exhaustion, heat stroke, and death. The most vulnerable populations are those that spend a disproportionately high amount of time outside, such as children, outdoor workers, and persons experiencing homelessness; those who cannot easily adjust to their environments in order to reduce heat exposure, such as households in poverty; and those whose health makes them particularly sensitive to heat, including those with sensitive or compromised immune systems, persons with chronic illnesses, and seniors.

Extreme heat can regularly cause power outages due to a combination of mechanical failure of electrical grid equipment, heat damage to the wires themselves, and high demand for electricity as a result of cooling equipment, all of which causes stress on the grid. As extreme heat events become more frequent and intense, disruptions in service are likely to become more frequent. Although high temperatures in the City may not damage energy services, transmission lines going through inland areas can be damaged or not function properly due to extreme heat.

Additional vulnerabilities include outdoor recreation, as people may be deterred from recreating outdoors in high temperatures, and aquatic and wetland habitats, whose water quality may decline as temperatures increase.

Flooding

As explained by the California Fourth Climate Change Assessment, California's water system is structured and operated to balance between water storage for dry months and flood protection during rainy seasons. Although climate change is likely to lead to a drier climate overall, risks from higher frequency, more intense rainfall events can generate more frequent and/or more severe flooding that upsets this managed balance between storage and protection.

Climate change forecasts for the San Leandro region predict more intense rainfall events, more frequent or extensive runoff, and more flooding. According to Cal-Adapt, historically, intense rain

events occurred an average of two times per year; they are projected to increase to an average of 3.5 events per year by midcentury and an average of 4.25 events by the end of the century.

Inland flooding can cause significant harm to buildings, people, and infrastructure. Floodwater can be deep enough to drown people and may move fast enough to carry away people or heavy objects (such as cars). Flooding can be caused by heavy rainfall, long periods of moderate rainfall, or clogged storm drains during periods of rainfall. In rare instances, a break in a water pipe or water tank can also cause flooding. Storm drainage systems throughout the City collect stormwater runoff and convey water to prevent localized flooding. However, these systems are typically designed based on winter storms recorded in the past and may not be designed to accommodate more intense storms.

Areas in San Leandro within the 100-year flood zone include land adjacent to San Leandro Creek, San Lorenzo Creek, and the Estudillo Canal; land along flood control channels in the vicinity of Bayfair Center and Bonaire Park; and coastal areas surrounding Oyster Bay Regional Shoreline, the San Leandro Shoreline, and Mission Bay.

An additional consequence of a property's designation within the 100-year flood zone is that flood insurance is required for federally-insured mortgage loans and may be required by other mortgage lenders. Additionally, the City's Flood Plain Management Ordinance requires that new construction, additions, and major home improvement projects be raised at least one foot above the base flood elevation.

Human Health Hazards

Human health hazards are bacteria, viruses, parasites, and other organisms that can cause diseases and illness in people. Some of these diseases may only cause mild inconvenience, but others are potentially life threatening. These diseases can be and often are carried by animals such as mice and rats, ticks, and mosquitos. Warmer temperatures and high levels of precipitation can lead to increased populations of disease-carrying animals, creating a greater risk of disease and increased rates of infection. Other human health hazards include poor air quality, such as ozone pollution and smoke from wildfires, which can affect respiratory systems of those exposed for prolonged periods.

Landslide and Debris Flow

Landslides occur when a hillside becomes unstable, causing soil and rocks to slide downslope. Landslides can include rock falls, deep failures of slopes, and shallow debris flows. Landslides are most common on steep slopes and hillsides made of loose soil or other material, where excavation and grading, drainage alterations, or changes in vegetation have occurred. The vulnerability assessment looks at landslides that are caused by precipitation, although earthquakes can also trigger landslides. Hillsides commonly absorb water, which increases instability of the slope and may increase the risk of slope failure. Steep slopes made up of loose or fractured material are more likely to slide. In some cases, hillsides can become so saturated that slope failures result in a mudslide (a mixture of soil and water moving downslope). Steeper slopes in the San Leandro Hills are in high landslide susceptibility areas.

Landslides and mudslides can move fast enough to damage or destroy homes or other structures in their path, block roadways (including evacuation routes), and injure or kill people caught in them. The most vulnerable populations are those that may be unable to evacuate due to limited mobility, lack of access to a vehicle, or language barriers that may prevent awareness of emergency notifications. Those living on single-access roadways in the hilly portion of the City or those living in less resilient housing may lose access to their homes if roadways or the structures are damaged or destroyed by a landslide. Infrastructure, such as natural gas pipelines and water or wastewater infrastructure, can break or malfunction if the soil supporting them fails. This can lead to disruptions in energy delivery and water or wastewater services.

Sea-level Rise

As global temperatures rise, glaciers and other land ice near the north and south poles melt. The water flows into the ocean, increasing sea levels across the globe. Higher temperatures also cause water to expand in oceans, causing further rising of sea levels. SLR is a gradual process, taking place over years or decades. In California, guidance suggests that sea levels will increase by 6 to 10 inches in most places by 2030, 13 to 23 inches by 2050, and 41 to 83 inches by 2100. However, it is possible that sea levels could rise faster than these projections. Along the San Leandro Bay shoreline, sea levels are projected to rise approximately 24 inches by 2050 and as much as 84 inches by 2100.

Rising sea levels can increase the frequency and severity of bay shoreline flooding. Since SLR raises ocean levels, shoreline floods, such as king tides and storm surges, can reach further onto land. For example, a storm that has a 1 in 10 chance of occurring in a given year (known as a 10-year storm), can create a temporary increase in sea levels of approximately 28 to 30 inches. This means that if sea levels rise by 24 inches during normal conditions, a 10-year storm event would create a temporary SLR of around 52 inches. Bayshore flooding zones in 2050 and 2100 are shown in Figure 9 of San Leandro's 2021 Climate Action Plan (CAP). Higher sea levels can also give a "boost" to smaller floods that would not have been large enough to flood dry land during normal conditions, making shoreline flooding more frequent.

Eventually, sea level may increase enough to permanently flood low-lying areas in the eastern portion of San Leandro along the bayshore. Homes within the Mulford Gardens, Marina Faire, and Heron Bay neighborhoods are within the SLR inundation area. SLR can increase residential flooding in these neighborhoods, causing mold and mildew to grow. Eventually, homes in these neighborhoods may become uninhabitable. Homes and structures built above sea level can still be harmed if the higher levels of water erode the rock or soil supporting the structures, potentially making them unsafe or at risk of collapse.

Many industrial centers are within the bayshore flooding area. SLR can inundate the foundations of buildings or cause more frequent flooding, causing the release of harmful chemicals used in industrial processes.

Water and wastewater services can be disrupted from SLR. The Water Pollution Control Plant (WPCP) is within the 2050 SLR area. Pumps and control panels that are not waterproofed or salt-resistant could fail or be damaged by SLR. Failure of these treatment plant components could cause the sewer

systems to backup and potentially contaminate streams and potable water systems with raw sewage. Saltwater inundation can exacerbate wet weather flows caused by stormwater and bayshore flooding, preventing the system from functioning properly. Wetlands included in the herbaceous ecosystem will be inundated by rising sea levels. The wildlife habitat, passive recreation, and flood protection that these ecosystems provide may not be able to be sustained.

Severe Storms

Severe storms include windstorms, hail, lightning, thunderstorms, and heavy rainfall. Severe weather is usually caused by intense storm systems, although some types of strong winds can occur without a storm. The connection between climate change and severe storms is not as well established as other exposures, but new evidence suggests that severe storms may occur more often and become more intense than in the past. Severe winds—over 50 to 60 miles per hour but up to 100 miles per hour can damage or destroy buildings and infrastructure. Hail can damage buildings and plants (and in extreme cases injure people), and lightning can spark fires, injure people, or cause fatalities. Heavy rainfall, which is characterized by rainfall amounts that exceed normal levels, can lead to flooding throughout San Leandro. Strong winds and heavy rainfall are the most common types of severe weather in the City.

The energy delivery system is especially vulnerable to windstorms, which can damage transmission lines or cause public safety power shutoff events. Windstorms can also damage warehouses that hold harmful materials and prevent people from traveling to work, which can affect important economic drivers in the City.

Increased Rate of Wildfires

Wildfires are a regular feature of the landscape in much of California. They can be sparked by lightning, malfunctioning equipment, vehicle crashes, or many other causes. Warmer temperatures, an increase in drought conditions, and extreme wind events are likely to create more fuel for fires in natural and rural areas, leading to a greater chance that a spark will grow into a potentially dangerous blaze. Climate change is also expected to extend the fire season throughout much (or even all) of the year.

The City of San Leandro is adjacent to thousands of acres of potentially flammable coastal scrub and forested space. Fire hazard severity zones in San Leandro, include very high fire hazard severity zones along the eastern edges of the Bay-O-Vista neighborhood and the Daniels Drive area. Because wildfires burn the trees and other vegetation that help stabilize a hillside and absorb water, more areas burned by fire may also lead to an increase in landslides and debris flows. According to Cal-Adapt, the annual average area burned by wildfire in the region is projected to experience a modest increase. Historically, the annual average area burned in Alameda County was approximately 4,020 acres. According to Cal-Adapt, under the higher emissions scenario, this could increase to an average annual burn area of approximately 4,600 acres. Although most of this increased wildfire activity is unlikely to occur in San Leandro itself, San Leandro residents will still be impacted by smoke from wildfires in other parts of the county or the State.

SECTION 3: REGULATORY FRAMEWORK

3.1.1 - Federal

Clean Air Act

Congress established much of the basic structure of the Clean Air Act (CAA) in 1970, and made major revisions in 1977 and 1990. Six common air pollutants (also known as criteria pollutants) are addressed in the CAA. These are particulate matter, ground level ozone, CO, sulfur oxides, nitrogen oxides, and lead. The EPA calls these pollutants criteria air pollutants because it regulates them by developing human health-based and/or environmentally based criteria (science-based guidelines) for setting permissible levels. The set of limits based on human health are called primary standards. Another set of limits intended to prevent environmental and property damage are called secondary standards. The NAAQS provide benchmarks for determining whether air quality is healthy at specific locations and whether development activities will cause or contribute to a violation of the standards. The criteria pollutants are:

- Ozone
- Nitrogen dioxide (NO_2)
- Lead
- Particulate matter (PM_{10} and $PM_{2.5}$)
- Carbon monoxide (CO)
- Sulfur dioxide

The NAAQS were set to protect public health, including that of sensitive individuals; thus, the EPA is tasked with updating the standards as more medical research is available regarding the health effects of the criteria pollutants. Primary federal standards are the levels of air quality necessary, with an adequate margin of safety, to protect the public health.

The CAA also requires each state to prepare an air quality control plan referred to as a State Implementation Plan (SIP). The federal CAA Amendments of 1990 added requirements for states with nonattainment areas to revise their SIPs to incorporate additional control measures to reduce air pollution. The SIP is periodically modified to reflect the latest emissions inventories, planning documents, and rules and regulations of the air basins, as reported by their jurisdictional agencies.

EPA Emission Standards for New Off-Road Equipment

Before 1994, there were no standards to limit the amount of emissions from off-road equipment. In 1994, the EPA established emission standards for hydrocarbons, NO_X, CO, and PM to regulate new pieces of off-road equipment. These emission standards came to be known as Tier 1. Since that time, increasingly more stringent Tier 2, Tier 3, and Tier 4 (interim and final) standards were adopted by the EPA, as well as by the ARB. Each adopted emission standard was phased in over time. New engines built in and after 2015 across all horsepower sizes must meet Tier 4 final emission standards. In other words, new manufactured engines cannot exceed the emissions established for Tier 4 final emissions standards.

Massachusetts et al. v. EPA (U.S. Supreme Court GHG Endangerment Ruling)

Massachusetts et al. v. EPA (Supreme Court Case 05-1120) was argued before the United States Supreme Court on November 29, 2006, in which it was petitioned that the United States Environmental Protection Agency (EPA) regulate four GHGs, including CO_2, under Section 202(a)(1) of the CAA. A decision was made on April 2, 2007, in which the Supreme Court found that GHGs are air pollutants covered by the CAA. The Court held that the Administrator must determine whether emissions of GHGs from new motor vehicles cause or contribute to air pollution, which may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. On December 7, 2009, the EPA Administrator signed two distinct findings regarding GHGs under Section 202(a) of the CAA:

- **Endangerment Finding:** The Administrator finds that the current and projected concentrations of the six key well-mixed greenhouse gases—CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6—in the atmosphere threaten the public health and welfare of current and future generations; and
- **Cause or Contribute Finding:** The Administrator finds that the combined emissions of these well-mixed GHG emissions from new motor vehicles and new motor vehicle engines contribute to the GHG emission pollution, which threatens public health and welfare.

These findings do not impose requirements on industry or other entities. However, this was a prerequisite for implementing GHG emissions standards for vehicles, as discussed under "Clean Vehicles" below. After a lengthy legal challenge, the U.S. Supreme Court declined to review an Appeals Court ruling which upheld the EPA Administrator findings.

United States Clean Air Act Permitting Programs (New GHG Source Review)

The EPA issued a final rule on May 13, 2010, which establishes thresholds for GHGs that define when permits under the New Source Review Prevention of Significant Deterioration and Title V Operating Permit programs are required for new and existing industrial facilities. This final rule "tailors" the requirements of these CAA permitting programs to limit which facilities will be required to obtain Prevention of Significant Deterioration and Title V permits. In the preamble to the revisions to the Code of Federal Regulations, the EPA states:

> This rulemaking is necessary because without it the Prevention of Significant Deterioration and Title V requirements would apply, as of January 2, 2011, at the 100 or 250 tons per year levels provided under the Clean Air Act, greatly increasing the number of required permits, imposing undue costs on small sources, overwhelming the resources of permitting authorities, and severely impairing the functioning of the programs. EPA is relieving these resource burdens by phasing in the applicability of these programs to greenhouse gas sources, starting with the largest greenhouse gas emitters. This rule establishes two initial steps of the phase-in. The rule also commits the agency to take certain actions on future steps addressing smaller sources, but excludes certain smaller sources from Prevention of Significant Deterioration and Title V permitting for greenhouse gas emissions until at least April 30, 2016.

The EPA estimates that facilities responsible for nearly 70 percent of the national GHG emissions from stationary sources will be subject to permitting requirements under this rule. This includes the nation's largest GHG emitters—power plants, refineries, and cement production facilities.

Energy Independence and Security Act

The Energy Policy Act of 2005 created the Renewable Fuel Standard program. The Energy Independence and Security Act of 2007 expanded this program by:

- Expanding the Renewable Fuel Standard program to include diesel in addition to gasoline;
- Increasing the volume of renewable fuel required to be blended into transportation fuel from 9 billion gallons in 2008 to 36 billion gallons by 2022;
- Establishing new categories of renewable fuel, and setting separate volume requirements for each one; and
- Requiring EPA to apply lifecycle GHG performance threshold standards to ensure that each category of renewable fuel emits fewer GHGs than the petroleum fuel it replaces.

This expanded Renewable Fuel Standard program lays the foundation for achieving substantial reductions of GHG emissions from the use of renewable fuels, reducing the use of imported petroleum, and encouraging the development and expansion of the nation's renewable fuels sector.

Signed on December 19, 2007 by President George W. Bush, the Energy Independence and Security Act of 2007 (EISA) aims to:

- Move the United States toward greater energy independence and security.
- Increase the production of clean renewable fuels.
- Protect consumers.
- Increase the efficiency of products, buildings, and vehicles.
- Promote research on and deploy GHG emission capture and storage options.
- Improve the energy performance of the federal government.
- Increase U.S. energy security, develop renewable fuel production, and improve vehicle fuel economy.

EISA reinforces the energy reduction goals for federal agencies put forth in Executive Order 13423 and introduces more aggressive requirements. The three key provisions enacted are the Corporate Average Fuel Economy Standards, the Renewable Fuel Standard, and the appliance/lighting efficiency standards.

The EPA is committed to developing, implementing, and revising both regulations and voluntary programs under the following subtitles in EISA, among others:

- Increased Corporate Average Fuel Economy Standards
- Federal Vehicle Fleets
- Renewable Fuel Standard

- Biofuels Infrastructure
- Carbon Capture and Sequestration[18]

EPA and National Highway Traffic Safety Administration Light-Duty Vehicle Greenhouse Gas Emission Standards and Corporate Average Fuel Economy Standards Final Rule

Congress first passed the Corporate Average Fuel Economy law in 1975 to increase the fuel economy of cars and light-duty trucks. The law has become more stringent over time. On May 19, 2009, President Barack Obama put in motion a new national policy to increase fuel economy for all new cars and trucks sold in the United States. On April 1, 2010, the EPA and the Department of Transportation's National Highway Traffic Safety Administration (NHTSA) announced a joint final rule establishing a national program that would reduce GHG emissions and improve fuel economy for new cars and trucks sold in the United States.

The first phase of the national program would apply to passenger cars, light-duty trucks, and medium-duty passenger vehicles, covering model years 2012 through 2016. They require these vehicles to meet an estimated combined average emissions level of 250 grams of CO_2 per mile, equivalent to 35.5 miles per gallon if the automobile industry were to meet this CO_2 level solely through fuel economy improvements. Together, these standards would cut CO_2 emissions by an estimated 960 MMT and 1.8 billion barrels of oil over the lifetime of the vehicles sold under the program (model years 2012-2016).

The EPA and the NHTSA issued final rules on a second phase joint rulemaking, establishing national standards for light-duty vehicles for model years 2017 through 2025 in August 2012.[19] The new standards for model years 2017 through 2025 apply to passenger cars, light-duty trucks, and medium-duty passenger vehicles. The final standards are projected to result in an average industry fleet wide level of 163 grams/mile of CO_2 in model year 2025, which is equivalent to 54.5 miles per gallon if achieved exclusively through fuel economy improvements.

The EPA and NHTSA issued final rules for the first national standards to reduce GHG emissions and improve fuel efficiency of heavy-duty trucks and buses on September 15, 2011, which became effective November 14, 2011. For combination tractors, the agencies are proposing engine and vehicle standards that began in the 2014 model year and achieve up to a 20 percent reduction in CO_2 emissions and fuel consumption by the 2018 model year. For heavy-duty pickup trucks and vans, the agencies are proposing separate gasoline and diesel truck standards, which phase in starting in the 2014 model year and achieve up to a 10 percent reduction for gasoline vehicles, and a 15 percent reduction for diesel vehicles by 2018 model year (12 and 17 percent respectively if accounting for air conditioning leakage). Lastly, for vocational vehicles, the engine and vehicle standards would achieve up to a 10 percent reduction in fuel consumption and CO_2 emissions from the 2014 to 2018 model years.

[18] United States Environment Protection Agency (EPA). 2007. Summary of the Energy Independence and Security Act. Website: https://www.epa.gov/laws-regulations/summary-energy-independence-and-security-act. Accessed June 7, 2022.

[19] United States Environmental Protection Agency (EPA). 2012. EPA and NHTSA Set Standards to Reduce Greenhouse Gases and Improve Fuel Economy for Model Years 2017-2025 Cars and Light Trucks. EPA-420-F-12-051. August.

The State of California has received a waiver from the EPA to have separate, stricter Corporate Average Fuel Economy Standards. Although global climate change did not become an international concern until the 1980s, efforts to reduce energy consumption began in California in response to the oil crisis in the 1970s, resulting in the incidental reduction of GHG emissions. In order to manage the State's energy needs and promote energy efficiency, AB 1575 created the CEC in 1975.

3.1.2 - State

California Air Quality Control Plan (State Implementation Plan)

An SIP is a document prepared by each state describing existing air quality conditions and measures that will be followed to attain and maintain federal standards. The SIP for the State of California is administered by the ARB, which has overall responsibility for Statewide air quality maintenance and air pollution prevention. California's SIP incorporates individual federal attainment plans for regional air districts—an air district prepares their federal attainment plan, which is sent to the ARB to be approved and incorporated into the California SIP. Federal attainment plans include the technical foundation for understanding air quality (e.g., emission inventories and air quality monitoring), control measures and strategies, and enforcement mechanisms for attaining and maintaining air quality standards.

Areas designated nonattainment must develop air quality plans and regulations to achieve standards by specified dates, depending on the severity of the exceedances. For much of the country, implementation of federal motor vehicle standards and compliance with federal permitting requirements for industrial sources are adequate to attain air quality standards on schedule. For many areas of California, however, additional State and local regulation is required to achieve the standards.

California Clean Air Act

The California Legislature enacted the California Clean Air Act (CCAA) in 1988 to address air quality issues of concern not adequately addressed by the federal CAA at the time. California's air quality problems were and continue to be some of the most severe in the nation, and required additional actions beyond the federal mandates. The ARB administers the CAAQS for the 10 air pollutants designated in the CCAA. The 10 State air pollutants are the six federal standards listed above as well as visibility-reducing particulates, hydrogen sulfide, sulfates, and vinyl chloride. The EPA authorized California to adopt its own regulations for motor vehicles and other sources that are more stringent than similar federal regulations implementing the CAA. Generally, the planning requirements of the CCAA are more stringent than the federal CAA; therefore, consistency with the CAA will also demonstrate consistency with the CCAA.

Other ARB responsibilities include but are not limited to overseeing local air district compliance with California and federal laws; approving local air quality plans; submitting SIPs to the EPA; monitoring air quality; determining and updating area designations and maps; conducting basic research aimed at providing a better understanding between emissions and public well-being, and setting emissions standards for new mobile sources, consumer products, small utility engines, off-road vehicles, and fuels.

California Health and Safety Code Section 39655 and California Code of Regulations Title 17 Section 93000 (Substances Identified as Toxic Air Contaminants)

The ARB identifies substances as TACs as defined in Health and Safety Code Section 39655 and listed in Title 17, Section 93000 of the California Code of Regulations, "Substances Identified As Toxic Air Contaminants." A TAC is defined as an air pollutant that may cause or contribute to an increase in mortality or serious illness, or that may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air; however, their high toxicity or health risk may pose a threat to public health even at low concentrations. In general, for those TACs that may cause cancer, there are thresholds set by regulatory agencies below which adverse health impacts are not expected to occur. This contrasts with the criteria pollutants for which acceptable levels of exposure can be determined and for which the State and federal government have set ambient air quality standards. According to the California Almanac of Emissions and Air Quality, the majority of the estimated health risk from TACs for the State of California can be attributed to relatively few compounds, the most important of which is diesel particulate matter (DPM) from diesel-fueled engines.

California Low Emission Vehicle Program

The ARB first adopted Low Emission Vehicle (LEV) program standards in 1990. These first LEV standards ran from 1994 through 2003. LEV II regulations, running from 2004 through 2010, represent continuing progress in emission reductions. As the State's passenger vehicle fleet continues to grow and more sport utility vehicles and pickup trucks are used as passenger cars rather than work vehicles, the more stringent LEV II standards were adopted to provide reductions necessary for California to meet federally mandated clean air goals outlined in the 1994 SIP. In 2012, the ARB adopted the LEV III amendments to California's LEV regulations. These amendments, also known as the Advanced Clean Car Program, include more stringent emission standards for model years 2017 through 2025 for both criteria pollutants and GHG emissions for new passenger vehicles.

California On-Road Heavy-Duty Vehicle Program

The ARB has adopted standards for emissions from various types of new on-road heavy-duty vehicles. Section 1956.8, Title 13, California Code of Regulations contains California's emission standards for on-road heavy-duty engines and vehicles, and test procedures. The ARB has also adopted programs to reduce emissions from in-use heavy-duty vehicles including the Heavy-Duty Diesel Vehicle Idling Reduction Program, the Heavy-Duty Diesel In-Use Compliance Program, the Public Bus Fleet Rule and Engine Standards, and the School Bus Program and others.

California In-Use Off-Road Diesel Vehicle Regulation

On July 26, 2007, the ARB adopted a regulation to reduce DPM and NO_X emissions from in-use (existing) off-road heavy-duty diesel vehicles in California. Such vehicles are used in construction, mining, and industrial operations. The regulation limits idling to no more than five consecutive minutes, requires reporting and labeling, and requires disclosure of the regulation upon vehicle sale. The ARB is enforcing that part of the rule with fines up to $10,000 per day for each vehicle in violation. Performance requirements of the rule are based on a fleet's average NO_X emissions, which can be met by replacing older vehicles with newer, cleaner vehicles or by applying exhaust retrofits. The regulation was amended in 2010 to delay the original timeline of the performance requirements, making the first compliance deadline January 1, 2014, for large fleets (over 5,000

horsepower), 2017 for medium fleets (2,501-5,000 horsepower), and 2019 for small fleets (2,500 horsepower or less).

The latest amendments to the Truck and Bus Regulation became effective on December 31, 2014. The amended regulation requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Newer heavier trucks and buses must meet PM 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 are required to have 2010 model year engines or equivalent.

The regulation applies to nearly all privately and federally owned diesel-fueled trucks and buses and to privately and publicly owned school buses with a gross vehicle weight rating greater than 14,000 pounds. The regulation provides a variety of flexibility options tailored to fleets operating low use vehicles, fleets operating in selected vocations like agricultural and construction, and small fleets of three or fewer trucks.

California Airborne Toxic Control Measures for Asbestos

The ARB has adopted Airborne Toxic Control Measures (ATCM) for sources that emit a particular TAC. If there is a safe threshold for a substance at which there is no toxic effect, the control measure must reduce exposure below that threshold. If there is no safe threshold, the measure must incorporate Best Available Control Technology (BACT) to minimize emissions.

In July 2001, the ARB approved an ATCM for construction, grading, quarrying and surface mining operations to minimize emissions of naturally occurring asbestos. The regulation requires application of Best Management Practices (BMPs) to control fugitive dust in areas known to have naturally occurring asbestos and requires notification to the local air district prior to commencement of ground-disturbing activities. The measure establishes specific testing, notification and engineering controls prior to grading, quarrying, or surface mining in construction zones where naturally occurring asbestos is located on projects of any size. There are additional notification and engineering controls at work sites larger than one acre in size. These projects require the submittal of a “Dust Mitigation Plan” and approval by the air district prior to the start of a project.

Construction sometimes requires the demolition of existing buildings where construction occurs. Asbestos is also found in a natural state, known as naturally occurring asbestos. Exposure and disturbance of rock and soil that naturally contain asbestos can result in the release of fibers into the air and consequent exposure to the public. Asbestos most commonly occurs in ultramafic rock that has undergone partial or complete alteration to serpentine rock (serpentinite) and often contains chrysotile asbestos. In addition, another form of asbestos, tremolite, can be found associated with ultramafic rock, particularly near faults. Sources of asbestos emissions include unpaved roads or driveways surfaced with ultramafic rock, construction activities in ultramafic rock deposits, or rock quarrying activities where ultramafic rock is present.

The ARB has an ATCM for construction, grading, quarrying, and surface mining operations, requiring the implementation of mitigation measures to minimize emissions of asbestos-laden dust. The measure applies to road construction and maintenance, construction and grading operations, and

quarries and surface mines when the activity occurs in an area where naturally occurring asbestos is likely to be found. Areas are subject to the regulation if they are identified on maps published by the Department of Conservation as ultramafic rock units or if the Air Pollution Control Officer or owner/operator has knowledge of the presence of ultramafic rock, serpentine, or naturally occurring asbestos on the site. The measure also applies if ultramafic rock, serpentine, or asbestos is discovered during any operation or activity. Review of the Department of Conservation maps indicates that no ultramafic rock has been found near the project site.[20]

Verified Diesel Emission Control Strategies

The EPA and the ARB tiered off-road emission standards only apply to new engines and off-road equipment can last several years. The ARB has developed Verified Diesel Emission Control Strategies (VDECS), which are devices, systems, or strategies used to achieve the highest level of pollution control from existing off-road vehicles, to help reduce emissions from existing engines. VDECS are designed primarily for the reduction of DPM emissions and have been verified by ARB. There are three levels of VDECS, the most effective of which is the Level 3 VDECS. Tier 4 engines are not required to install VDECS because they already meet the emissions standards for lower tiered equipment with installed controls.

California Diesel Risk Reduction Plan

The ARB Diesel Risk Reduction Plan has led to the adoption of new State regulatory standards for all new on-road, off-road, and stationary diesel-fueled engines, and vehicles to reduce DPM emissions in 2020 by about 90 percent overall from year 2000 levels. The estimated emission benefits associated with the full implementation of this plan, including federal measures, are reductions in DPM emissions and associated cancer risks of 75 percent by 2010, and 85 percent by 2020.

Tanner Air Toxics Act and Air Toxics Hot Spots Information and Assessment Act

TACs in California are primarily regulated through the Tanner Air Toxics Act (AB 1807) and the Air Toxics Hot Spots Information and Assessment Act of 1987 (AB 2588), also known as the Hot Spots Act. To date, the ARB has identified more than 21 TACs, and has adopted the EPA's list of Hazardous Air Pollutants (HAPs) as TACs.

Carl Moyer Memorial Air Quality Standards Attainment Program

The Carl Moyer Memorial Air Quality Standards Attainment Program (Carl Moyer Program), a partnership between the ARB and local air districts, issues grants to replace or retrofit older engines and equipment with engines and equipment that exceed current regulatory requirements to reduce air pollution. Money collected through the Carl Moyer Program complements California's regulatory program by providing incentives to effect early or extra emission reductions, especially from emission sources in environmental justice communities and areas disproportionately affected by air pollution. The program has established guidelines and criteria for the funding of emissions reduction projects. Within the SFBAAB, the BAAQMD administers the Carl Moyer Program. The program has established guidelines and criteria for the funding of emissions reduction projects and has

[20] Department of Conservation. 2011. Map Sheet 59: Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California.

established cost-effectiveness criteria for funding emission reductions projects, which under the final 2017 Carl Moyer Program Guidelines are $30,000 per weighted ton of NO_X, ROG, and PM.

California Assembly Bill 32: Global Warming Solutions Act and Scoping Plan

The California State Legislature enacted AB 32, the California Global Warming Solutions Act of 2006. AB 32 requires that GHGs emitted in California be reduced to 1990 levels by the year 2020. "Greenhouse gases" as defined under AB 32 include CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6. Since AB 32 was enacted, a seventh chemical, nitrogen trifluoride, has also been added to the list of GHGs. The ARB is the State agency charged with monitoring and regulating sources of GHGs. AB 32 states the following:

> Global warming poses a serious threat to the economic well-being, public health, natural resources, and the environment of California. The potential adverse impacts of global warming include the exacerbation of air quality problems, a reduction in the quality and supply of water to the State from the Sierra snowpack, a rise in sea levels resulting in the displacement of thousands of coastal businesses and residences, damage to marine ecosystems and the natural environment, and an increase in the incidences of infectious diseases, asthma, and other human health-related problems.

The ARB approved the 1990 GHG emissions level of 427 MMT CO_2e on December 6, 2007.[21] Therefore, to meet the State's target, emissions generated in California in 2020 were required to be equal to or less than 427 MMT CO_2e. Emissions in 2020 in a business-as-usual (BAU) scenario were estimated to be 596 MMT CO_2e, which do not account for reductions from AB 32 regulations.[22] At that rate, a 28 percent reduction was required to achieve the 427 MMT CO_2e 1990 inventory. In October 2010, the ARB prepared an updated 2020 forecast to account for the effects of the 2008 recession and slower forecasted growth. The 2020 inventory without the benefits of adopted regulation is now estimated at 545 MMT CO_2e. Therefore, under the updated forecast, a 21.7 percent reduction from a BAU scenario is required to achieve 1990 levels.[23]

The State has made steady progress in implementing AB 32. The progress is shown in updated emission inventories prepared by ARB for 2000 through 2012 to show progress achieved to date.[24] The State also achieved its target for 2010 of reducing GHG emissions to 2000 levels. As shown below, the 2010 emission inventory achieved this target. Also shown are the average reductions needed from all Statewide sources (including all existing sources) to reduce GHG emissions back to 1990 levels.

- **1990:** 427 MMT CO_2e (AB 32 2020 Target)
- **2000:** 463 MMT CO_2e (an average 8 percent reduction needed to achieve 1990 base)

[21] California Air Resources Board (ARB). 2007. Staff Report. California 1990 Greenhouse Gas Level and 2020 Emissions Limit. November 16.
[22] California Air Resources Board (ARB). 2008. Climate Change Scoping Plan, a framework for change. December.
[23] California Air Resources Board (ARB). 2014. GHG 2020 Business-as-Usual Emissions Projection. Website: https://ww2.arb.ca.gov/ghg-bau. Accessed June 7, 2022.
[24] California Air Resources Board (ARB). 2014. California Greenhouse Gas Emissions for 2000 to 2012—Trends of Emissions and Other Indicators. Website: http://www.arb.ca.gov/cc/inventory/pubs/reports/ghg_inventory_00-12_report.pdf. Accessed June 7, 2022.

- **2010:** 450 MMT CO_2e (an average 5 percent reduction needed to achieve 1990 base)
- **2020:** 545 MMT CO_2e BAU (an average 21.7 percent reduction from BAU needed to achieve 1990 base)

The ARB's initial Climate Change Scoping Plan (Scoping Plan) contained measures designed to reduce the State's emissions to 1990 levels by the year 2020 to comply with AB 32.[25] The Scoping Plan identified recommended measures for multiple GHG emission sectors and the associated emission reductions needed to achieve the year 2020 emissions target—each sector had a different emission reduction target. Most of the measures target the transportation and electricity sectors. As stated in the Scoping Plan, the key elements of the strategy for achieving the 2020 GHG target include:

- Expanding and strengthening existing energy efficiency programs as well as building and appliance standards;
- Achieving a Statewide renewables energy mix of 33 percent;
- Developing a California Cap-and-Trade Program that links with other Western Climate Initiative partner programs to create a regional market system;
- Establishing targets for transportation-related GHG emissions for regions throughout California and pursuing policies and incentives to achieve those targets;
- Adopting and implementing measures pursuant to existing State laws and policies, including California's clean car standards, goods movement measures, and the Low Carbon Fuel Standard (LCFS); and
- Creating targeted fees, including a public goods charge on water use, fees on high GWP gases, and a fee to fund the administrative costs of the State's long-term commitment to AB 32 implementation.

In addition, the Scoping Plan differentiates between "capped" and "uncapped" strategies. Capped strategies are subject to the ARB's Cap-and-Trade Program. The Scoping Plan states that the inclusion of these emissions within the Cap-and-Trade Program would help ensure that the year 2020 emission targets were met despite some degree of uncertainty in the emission reduction estimates for any individual measure. Implementation of the capped strategies is calculated to achieve sufficient reductions by 2020 to achieve the emission target contained in AB 32. Uncapped strategies that will not be subject to the cap-and-trade emissions limits and requirements were provided as a margin of safety by accounting for additional GHG emission reductions.[26]

The Cap-and-Trade Program remains a key element of the Scoping Plan. It sets a Statewide limit on sources responsible for 85 percent of California's GHG emissions and establishes a price signal needed to drive long-term investment in cleaner fuels and more efficient use of energy. The program is designed to provide covered entities the flexibility to seek out and implement the lowest cost options to reduce emissions. The program conducted its first auction in November 2012. Compliance obligations began for power plants and large industrial sources in January 2013. Other significant

[25] California Air Resources Board (ARB). 2008. Climate Change Scoping Plan, a framework for change. December.
[26] California Air Resources Board (ARB). 2008. Climate Change Scoping Plan, a framework for change. December.

milestones include linkage to Québec's cap-and-trade system in January 2014 and starting the compliance obligation for distributors of transportation fuels, natural gas, and other fuels in January 2015.[27]

The Cap-and-Trade Program provides a firm cap, ensuring that the 2020 Statewide emission limit would not be exceeded. An inherent feature of the Cap-and-Trade Program is that it does not guarantee GHG emissions reductions in any discrete location or by any particular source. Rather, GHG emissions reductions are only guaranteed on an accumulative basis. As summarized by the ARB in the First Update:

> The Cap-and-Trade Regulation gives companies the flexibility to trade allowances with others or take steps to cost-effectively reduce emissions at their own facilities. Companies that emit more have to turn in more allowances or other compliance instruments. Companies that can cut their GHG emissions have to turn in fewer allowances. But as the cap declines, aggregate emissions must be reduced. In other words, a covered entity theoretically could increase its GHG emissions every year and still comply with the Cap-and-Trade Program if there is a reduction in GHG emissions from other covered entities. Such a focus on aggregate GHG emissions is considered appropriate because climate change is a global phenomenon, and the effects of GHG emissions are considered cumulative.[28]

The Cap-and-Trade Program works with other direct regulatory measures and provides an economic incentive to reduce emissions. If California's direct regulatory measures reduce GHG emissions more than expected, then the Cap-and-Trade Program will be responsible for relatively fewer emissions reductions. If California's direct regulatory measures reduce GHG emissions less than expected, then the Cap-and-Trade Program will be responsible for relatively more emissions reductions. Thus, the Cap-and-Trade Program assures that California will meet its 2020 GHG emissions reduction mandate:

> The Cap-and-Trade Program establishes an overall limit on GHG emissions from most of the California economy—the "capped sectors." Within the capped sectors, some of the reductions are being accomplished through direct regulations, such as improved building and appliance efficiency standards, the [Low Carbon Fuel Standard] LCFS, and the 33 percent [Renewables Portfolio Standard] RPS. Whatever additional reductions are needed to bring emissions within the cap is accomplished through price incentives posed by emissions allowance prices. Together, direct regulation and price incentives assure that emissions are brought down cost-effectively to the level of the overall cap. The Cap-and-Trade Regulation provides assurance that California's 2020 limit will be met because the regulation sets a firm limit on 85 percent of California's GHG emissions. In sum, the Cap-and-Trade Program will achieve aggregate, rather than site-specific or project-level, GHG emissions reductions.

[27] California Air Resources Board (ARB). 2015. ARB Emissions Trading Program. February 9.
[28] California Air Resources Board (ARB). 2014. First Update to the Climate Change Scoping Plan. May.

Also, due to the regulatory architecture adopted by ARB in AB 32, the reductions attributed to the Cap-and-Trade Program can change over time depending on the State's emissions forecasts and the effectiveness of direct regulatory measures.[29]

California Senate Bill 32

The Governor signed SB 32 in September of 2016, giving the ARB the statutory responsibility to include the 2030 target previously contained in Executive Order B-30-15 in the 2017 Scoping Plan Update. SB 32 states, "In adopting rules and regulations to achieve the maximum technologically feasible and cost-effective greenhouse gas emissions reductions authorized by this division, the state [air resources] board shall ensure that Statewide greenhouse gas emissions are reduced to at least 40 percent below the Statewide greenhouse gas emissions limit no later than December 31, 2030." As such, SB 32 lays the foundation for the legislative reduction targets for 2030.

2017 Scoping Plan

The most recent version of the ARB's Scoping Plan, the 2017 Climate Change Scoping Plan Update, addresses the SB 32 targets and was adopted on December 14, 2017. The major elements of the framework proposed to achieve the 2030 target are as follows:

1. SB 350
   - Achieve 50 percent Renewables Portfolio Standard by 2030.
   - Doubling of energy efficiency savings by 2030.
2. Low Carbon Fuel Standard
   - Increased stringency (reducing carbon intensity 18 percent by 2030, up from 10 percent in 2020).
3. Mobile Source Strategy (Cleaner Technology and Fuels Scenario)
   - Maintaining existing GHG standards for light- and heavy-duty vehicles.
   - Put 4.2 million Zero-Emission Vehicles (ZEVs) on the roads.
   - Increase ZEV buses, delivery and other trucks.
4. Sustainable Freight Action Plan
   - Improve freight system efficiency.
   - Maximize use of near-ZEVs and equipment powered by renewable energy.
   - Deploy over 100,000 zero-emission trucks and equipment by 2030.
5. Short-Lived Climate Pollutant Reduction Strategy
   - Reduce emissions of methane and hydrofluorocarbons 40 percent below 2013 levels by 2030.
   - Reduce emissions of black carbon 50 percent below 2013 levels by 2030.
6. SB 375 Sustainable Communities Strategies
   - Increased stringency of 2035 targets.
7. Post-2020 Cap-and-Trade Program
   - Declining caps, continued linkage with Québec, and linkage to Ontario, Canada.

[29] California Air Resources Board (ARB). 2015. ARB Emissions Trading Program. February 9.

- The ARB will look for opportunities to strengthen the program to support more air quality co-benefits, including specific program design elements. In Fall 2016, the ARB staff described potential future amendments including reducing the offset usage limit, redesigning the allocation strategy to reduce free allocation to support increased technology and energy investment at covered entities and reducing allocation if the covered entity increases criteria or toxics emissions over some baseline.

8. 20 percent reduction in GHG emissions from the refinery sector.
9. By 2018, develop Integrated Natural and Working Lands Action Plan to secure California's land base as a net carbon sink.

California Senate Bill 350: Clean Energy and Pollution Reduction Act

In 2015, the State Legislature approved, and the Governor signed, SB 350, which reaffirmed California's commitment to reducing its GHG emissions and addressing climate change. Key provisions include an increase in the RPS, higher energy efficiency requirements for buildings, initial strategies toward a regional electricity grid, and improved infrastructure for electric vehicle charging stations. Provisions for a 50 percent reduction in the use of petroleum Statewide were removed from the Bill due to opposition and concern that it would prevent the Bill's passage. Specifically, SB 350 requires the following to reduce Statewide GHG emissions:

- Increase the amount of electricity procured from renewable energy sources from 33 percent to 50 percent by 2030, with interim targets of 40 percent by 2024, and 25 percent by 2027.
- Double the energy efficiency in existing buildings by 2030. This target will be achieved through the California Public Utility Commission, the CEC, and local publicly owned utilities.
- Reorganize the Independent System Operator (ISO) to develop more regional electrified transmission markets and to improve accessibility in these markets, which will facilitate the growth of renewable energy markets in the western United States.[30]

California Senate Bill 100: Renewable Portfolio Standard Program

On September 10, 2018, Governor Newsom signed SB 100, requiring California electricity utility providers to supply all in-State end users with electricity sourced from renewable or carbon-free sources by 2045. Specifically, SB 100 accelerates previously established RPS goals and requires that the program achieve 50 percent of electricity sourced from renewables by December 31, 2026, 60 percent by December 31, 2030, and 100 percent of electricity sourced from carbon-free sources by December 31, 2045. For clarification, renewable sources, as described herein, includes all renewable sources (e.g., solar, small hydro, wind) but notably omits large-scale hydroelectric and nuclear electricity generation; carbon-free sources include all renewable sources as well as large-scale hydroelectric and nuclear electricity generation.

[30] California Legislative Information (California Leginfo). 2015. Senate Bill 350 Clean Energy and Pollution Reduction Act of 2015. Website: https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201520160SB350. Accessed June 7, 2022.

California Assembly Bill 1493: Pavley Regulations and Fuel Efficiency Standards

California AB 1493, enacted on July 22, 2002, required the ARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light-duty trucks. Implementation of the regulation was delayed by lawsuits filed by automakers and by the EPA's denial of an implementation waiver. The EPA subsequently granted the requested waiver in 2009, which was upheld by the U.S. District Court for the District of Columbia in 2011.[31]

The standards were to be phased in during the 2009 through 2016 model years. When fully phased in, the near-term (2009–2012) standards were to result in an approximately 22 percent reduction compared with the 2002 fleet, and the mid-term (2013–2016) standards were to result in about a 30 percent reduction. Several technologies stand out as providing significant reductions in emissions at favorable costs. These include discrete variable valve lift or camless valve actuation to optimize valve operation rather than relying on fixed valve timing and lift as has historically been done; turbocharging to boost power and allow for engine downsizing; improved multi-speed transmissions; and improved air conditioning systems that operate optimally, leak less, and/or use an alternative refrigerant.[32]

The second phase of the implementation for the Pavley Bill was incorporated into Amendments to the LEV Program referred to as LEV III or the Advanced Clean Cars program. The Advanced Clean Car program combines the control of smog-causing pollutants and GHG emissions into a single coordinated package of requirements for model years 2017 through 2025. The regulation will reduce GHGs from new cars by 34 percent from 2016 levels by 2025. The new rules will reduce pollutants from gasoline and diesel-powered cars, and deliver increasing numbers of zero-emission technologies, such as full battery electric cars, newly emerging plug-in hybrid electric vehicles (EVs) and hydrogen fuel cell cars. The regulations will also ensure adequate fueling infrastructure is available for the increasing numbers of hydrogen fuel cell vehicles planned for deployment in California.[33]

California Senate Bill 375: Sustainable Communities and Climate Protection Act

SB 375 was signed into law on September 30, 2008. According to SB 375, the transportation sector is the largest contributor of GHG emissions, which emits over 40 percent of the total GHG emissions in California. SB 375 states, "Without improved land use and transportation policy, California will not be able to achieve the goals of AB 32." SB 375 does the following: (1) requires metropolitan planning organizations to include sustainable community strategies in their regional transportation plans for reducing GHG emissions, (2) aligns planning for transportation and housing, and (3) creates specified incentives for the implementation of the strategies.

California Senate Bill 1368: Emission Performance Standards

In 2006, the State Legislature adopted SB 1368, which the Governor subsequently signed into law. SB 1368 directs the California Public Utilities Commission to adopt a performance standard for GHG

[31] California Air Resources Board (ARB). 2013. Clean Car Standards—Pavley, Assembly Bill 1493. Website: https://www.gsweventcenter.com/GSW_RTC_References/2015_0915_CleanAirStandards_Pavley.pdf. Accessed June 7, 2022.
[32] California Air Resources Board (ARB). 2011. Facts About the Advanced Clean Cars Program. November 9.
[33] California Air Resources Board (ARB). 2011. Status of Scoping Plan Recommended Measures.

emissions for the future power purchases of California utilities. SB 1368 seeks to limit carbon emissions associated with electrical energy consumed in California by forbidding procurement arrangements for energy longer than 5 years from resources that exceed the emissions of a relatively clean, combined cycle natural gas power plant. Because of the carbon content of its fuel source, a coal-fired plant cannot meet this standard because such plants emit roughly twice as much carbon as natural gas, combined cycle plants. Accordingly, the new law effectively prevents California's utilities from investing in, otherwise financially supporting, or purchasing power from new coal plants located in or out of the State. The California Public Utilities Commission adopted the regulations required by SB 1368 on August 29, 2007. The regulations implementing SB 1368 establish a standard for baseload generation owned by, or under long-term contract to, publicly owned utilities of 1,100 lb. CO_2 per megawatt-hour (MWh).

California Senate Bill X7-7: Water Conservation Act

This 2009 legislation directed urban retail water suppliers to set individual 2020 per capita water use targets and begin implementing conservation measures to achieve those goals. Meeting this Statewide goal of 20 percent decrease in demand would have resulted in a reduction of almost 2 million acre-feet in urban water use.

California Air Resources Board's Truck and Bus Regulation

As part of the ARB's Sustainable Freight Strategy, the ARB adopted the Truck and Bus Regulation. The latest amendments to the Truck and Bus Regulation became effective on December 31, 2014. The amended regulation requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Newer heavier trucks and buses had to meet particulate matter filter requirements as of January 1, 2012. Lighter and older heavier trucks had to 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.

This regulation applies to nearly all privately and federally owned diesel-fueled trucks and buses and to privately and publicly owned school buses with a gross vehicle weight rating greater than 14,000 pounds. The regulation provides a variety of flexibility options tailored to fleets operating low use vehicles, fleets operating in selected vocations like agricultural and construction, and small fleets of three or fewer trucks.[34]

California Air Resources Board's Advanced Clean Trucks Rule

To further advance the State's Sustainable Freight Strategy, the ARB adopted the Advanced Clean Trucks (ACT) Rule in July 2020, which requires manufacturers of vehicle class 2b through vehicle class 8 trucks to begin meeting escalating in-State ZEV sales from 2024 through 2035. By 2035, the ACT Rule will require 55 percent of trucks class 2b through class 3 to be ZEVs, 75 percent of trucks class 4 through class 8 to be ZEVs, and 40 percent of truck tractors to be ZEVs. [35] Complementary to the ACT Rule, and as discussed further below, Executive Order N-79-20 set a goal of 100 percent of all in-State drayage truck sales to be ZEVs by 2035 and 100 percent of all in-State heavy-duty vehicle sales

[34] California Air Resources Board (ARB). 2015. On-Road Heavy-Duty Diesel Vehicles (In-Use) Regulation. Website: http://www.arb.ca.gov/msprog/onrdiesel/onrdiesel.htm. Accessed June 7, 2022.

[35] California Air Resources Board (ARB). 2021. Advanced Clean Trucks Fact Sheet. Website: https://ww2.arb.ca.gov/resources/fact-sheets/advanced-clean-trucks-fact-sheet. Accessed June 7, 2022.

to be ZEVs by 2045.The ARB is also in process of developing an Advanced Clean Fleet (ACF) Rule to accelerate the ACT Rule by requiring 100 percent of all in-State sales to be ZEVs in 2040 for class 2b through class 3 trucks, class 4 through class 8 vocational trucks, and class 7 through class 8 tractor trucks. The ACF Rule would also provide a clear timeline for requirements for phasing in in-State ZEV sales targets through 2040.[36]

California Code of Regulations Title 20: Appliance Efficiency Regulations

California Code of Regulations, Title 20: Division 2, Chapter 4, Article 4, Sections 1601-1608: Appliance Efficiency Regulations regulates the sale of appliances in California. The Appliance Efficiency Regulations include standards for both federally regulated appliances and non-federally regulated appliances. Twenty-three categories of appliances are included in the scope of these regulations. The standards within these regulations apply to appliances that are sold or offered for sale in California, except those sold wholesale in California for final retail sale outside the State and those designed and sold exclusively for use in recreational vehicles or other mobile equipment.

California Code of Regulations Title 24: Energy Efficiency Standards

Part 6 (Energy Efficiency Standards for Residential and Nonresidential Buildings)

California Code of Regulations Title 24 Part 6 (California's Energy Efficiency Standards for Residential and Nonresidential Buildings) was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy-efficient technologies and methods. Energy-efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases GHG emissions. The 2022 Building Energy Efficiency Standards went into effect on January 1, 2023.

California Code of Regulations Title 24: California Green Building Standards Code

California Code of Regulations Title 24, Part 11, is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went into effect on January 1, 2011. The Code is updated on a regular basis, with the most recent update consisting of the 2022 California Green Building Standards Code (CALGreen) that became effective January 1, 2023. Local jurisdictions are permitted to adopt more stringent requirements, as State law provides methods for local enhancements. The Code recognizes that many jurisdictions have developed existing construction ordinances and defers to them as the ruling guidance, provided that they provide a minimum 50 percent diversion requirement. The Code also provides exemptions for areas not served by construction and demolition recycling infrastructure. The State Building Code provides the minimum standard that buildings need to meet in order to be certified for occupancy, which is generally enforced by the local building official.

CALGreen (California Code of Regulations [CCR] Title 24, Part 11) requires:

- **Short-term bicycle parking**. If a commercial project is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily

[36] California Air Resources Board (ARB). 2022. Path to Zero Emission Trucks FAQ. Website: https://ww2.arb.ca.gov/resources/documents/path-zero-emission-trucks-faq. Accessed June 7, 2022.

visible to passers-by, for 5 percent of visitor motorized vehicle parking capacity, with a minimum of one two-bike capacity rack (5.106.4.1.1).

- **Long-term bicycle parking**. For buildings with over 10 tenant-occupants, provide secure bicycle parking for 5 percent of tenant-occupied motorized vehicle parking capacity, with a minimum of one space (5.106.4.1.2).
- **Designated parking**. Provide designated parking in commercial projects for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2 (5.106.5.2).
- **Recycling by Occupants**. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of nonhazardous materials for recycling (5.410.1).
- **Construction waste**. A minimum 65 percent diversion of construction and demolition waste from landfills. (5.408.1, A5.408.3.1 [nonresidential], A5.408.3.1 [residential]). All (100 percent) of trees, stumps, rocks and associated vegetation and soils resulting from land clearing shall be reused or recycled (5.408.3).
- **Wastewater reduction**. Each building shall reduce the generation of wastewater by one of the following methods:

    1. The installation of water-conserving fixtures or
    2. Using nonpotable water systems (5.303.4).

- **Water use savings**. 20 percent mandatory reduction in indoor water use with voluntary goal standards for 30, 35, and 40 percent reductions (5.303.2, A5303.2.3 [nonresidential]).
- **Water meters**. Separate water meters for buildings in excess of 50,000 square feet or buildings projected to consume more than 1,000 gallons per day (5.303.1).
- **Irrigation efficiency**. Moisture-sensing irrigation systems for larger landscaped areas (5.304.3).
- **Materials pollution control**. Low-pollutant emitting interior finish materials such as paints, carpet, vinyl flooring and particleboard (5.404).
- **Building commissioning**. Mandatory inspections of energy systems (i.e., heat furnace, air conditioner, mechanical equipment) for nonresidential buildings over 10,000 square feet to ensure that all are working at their maximum capacity according to their design efficiencies (5.410.2).

California Model Water Efficient Landscape Ordinance

The Model Water Efficient Landscape Ordinance (Ordinance) was required by the AB 1881 Water Conservation Act. The Ordinance required local agencies to adopt a local landscape ordinance at least as effective in conserving water as the Model Ordinance by January 1, 2010. Reductions in water use of 20 percent consistent with the SB X7-7 2020 mandate were required. Governor Brown's Drought Executive Order of April 1, 2015 (Executive Order B-29-15) directed DWR to update the Ordinance through expedited regulation. The California Water Commission approved the revised Ordinance on July 15, 2015, which became effective on December 15, 2015. New development

projects that include landscaped areas of 500 square feet or more are subject to the Ordinance. The update requires:

- More efficient irrigation systems
- Incentives for graywater usage
- Improvements in on-site stormwater capture
- Limiting the portion of landscapes that can be planted with high water use plants
- Reporting requirements for local agencies.

California Public Utilities Code

The California Public Utilities Commission (CPUC) regulates privately owned telecommunication, electric, natural gas, water, railroad, rail transit, and passenger transportation companies. It is the responsibility of the CPUC to (1) assure California utility customers receive safe, reliable utility service at reasonable rates; (2) protect utility customers from fraud; and (3) promote a healthy California economy. The Public Utilities Code, adopted by the legislature, defines the jurisdiction of the CPUC.

California Executive Order B-55-18 (GHG Emissions Reduction Targets)

On September 10, 2018, former California Governor Jerry Brown issued Executive Order B-55-18, which established the following GHG emissions reduction target:

By 2045, California shall achieve carbon net neutrality.

Executive Order B-55-18 identifies that new Statewide goal is to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net neutrality emissions thereafter. This emissions goal is in addition to the existing targets established by Executive Orders S-3-05 and B-30-15 and SB 32, as described in greater detail below. This Executive Order also directs the ARB to work with other State agencies to identify and recommend measures to achieve this goal.

California Executive Order S-01-07: Low Carbon Fuel Standard

The Governor signed Executive Order S 01-07 on January 18, 2007. The order mandated that a Statewide goal be established to reduce the carbon intensity of California's transportation fuels by at least 10 percent by 2020. In particular, the Executive Order established an LCFS and directed the Secretary for Environmental Protection to coordinate the actions of the CEC, the ARB, the University of California, and other agencies to develop and propose protocols for measuring the "lifecycle carbon intensity" of transportation fuels.

California Executive Order N-79-20

On September 23, 2020, Governor Gavin Newsom issued Executive Order N-79-20 establishing a goal that 100 percent of new passenger cars and trucks sold in California shall be zero-emission by 2035. The Executive Order also sets a goal that, where feasible, all operations include zero-emission medium- and heavy-duty trucks by 2045, and drayage trucks by 2035. Off-road vehicles have a goal to transition to 100 percent ZEVs by 2035, where feasible. While in-State sales of EVs will increase

through 2045, the State does not currently have legislation which will restrict or preclude the use of fossil fueled vehicles by or after 2045.

California Executive Order S-13-08

Executive Order S-13-08 states that "climate change in California during the next century is expected to shift precipitation patterns, accelerate sea level rise and increase temperatures, thereby posing a serious threat to California's economy, to the health and welfare of its population and to its natural resources." Pursuant to the requirements in the order, the 2009 California Climate Adaptation Strategy was adopted, which is the ". . . first Statewide, multi-sector, region-specific, and information-based climate change adaptation strategy in the United States." Objectives include analyzing risks of climate change in California, identifying and exploring strategies to adapt to climate change, and specifying a direction for future research.

California Executive Order B-30-15

On April 29, 2015, the Governor issued an Executive Order to establish a California GHG emissions reduction target of 40 percent below 1990 levels by 2030. The Governor's Executive Order aligns California's GHG reduction targets with those of leading international governments ahead of the United Nations Climate Change Conference in Paris late 2015. The Executive Order sets a new interim Statewide GHG emission reduction target to reduce GHG emissions to 40 percent below 1990 levels by 2030 in order to ensure California meets its target of reducing GHG emissions to 80 percent below 1990 levels by 2050 and directs the ARB to update the Climate Change Scoping Plan to express the 2030 target in terms of MMT CO_2e. The Executive Order also requires the State's climate adaptation plan to be updated every three years and for the State to continue its climate change research program, among other provisions. As with Executive Order S-3-05, this Executive Order is not legally enforceable against local governments and the private sector. Legislation that would update AB 32 to make post 2020 targets and requirements a mandate is in process in the State Legislature.

California Senate Bill 97 and the California Environmental Quality Act Guidelines Update

Passed in August 2007, SB 97 added Section 21083.05 to the Public Resources Code. SB 97 states "(a) On or before July 1, 2009, the Office of Planning and Research shall prepare, develop, and transmit to the Resources Agency guidelines for the mitigation of GHG emissions or the effects of GHG emissions as required by this division, including, but not limited to, effects associated with transportation or energy consumption. (b) On or before January 1, 2010, the Resources Agency shall certify and adopt guidelines prepared and developed by the Office of Planning and Research pursuant to subdivision (a)."

The 2010 California Environmental Quality Act (CEQA) Amendments first guided public agencies regarding the analysis and mitigation of the effects of GHG emissions in CEQA documents. The 2010 CEQA Amendments fit within the existing CEQA framework by amending existing CEQA Guidelines to reference climate change. The 2010 CEQA Amendments also revised Appendix F of the CEQA Guidelines, which focuses on Energy Conservation, and the sample environmental checklist in Appendix G was amended to include GHG questions.

The most recent 2018 CEQA Amendments expanded upon the previous guidance by specifying that:

> The lead agency should focus its analysis on the reasonably foreseeable incremental contribution of the project's emissions to the effects of climate change. A project's incremental contribution may be cumulatively considerable even if it appears relatively small compared to Statewide, national, or global emissions. The agency's analysis should consider a timeframe that is appropriate for the project. The agency's analysis also must reasonably reflect evolving scientific knowledge and State regulatory schemes. In determining the significance of impacts, the lead agency may consider a project's consistency with the State's long-term climate goals or strategies, provided that substantial evidence supports the agency's analysis of how those goals or strategies address the project's incremental contribution to climate change and its conclusion that the project's incremental contribution is not cumulatively considerable.

A lead agency may use a model or methodology to estimate GHG emissions resulting from a project. The lead agency has discretion to select the model or methodology it considers most appropriate to enable decision-makers to intelligently take into account the project's incremental contribution to climate change. The lead agency must support its selection of a model or methodology with substantial evidence. The lead agency should explain the limitations of the particular model or methodology selected for use.

The 2010 changes to CEQA Guidelines Sections 15126.4 and 15130, which address mitigation measures and cumulative impacts, respectively, remained unchanged by the 2018 CEQA Amendment. The cumulative impact discussion requirement (CEQA Guidelines § 15130) simply directs agencies to analyze GHG emissions in an Environmental Impact Report (EIR) when a project's incremental contribution of emissions may be cumulatively considerable; however, it does not answer the question of when emissions are cumulatively considerable.

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

(1) The extent to which the project may increase or reduce greenhouse gas emissions as compared to the existing environmental setting;
(2) Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
(3) The extent to which the project complies with regulations or requirements adopted to implement a Statewide, regional, or local plan for the reduction or mitigation of greenhouse gas emissions.

CEQA Guidelines Section 15183.5 continues to permit programmatic GHG analysis and later project-specific tiering, as well as the preparation of Greenhouse Gas Reduction Plans. Compliance with such plans can support a determination that a project's cumulative effect is not cumulatively considerable, according to Section 15183.5(b).

CEQA emphasizes that the effects of GHG emissions are cumulative and should be analyzed in the context of CEQA's requirements for cumulative impacts analysis (see CEQA Guidelines § 15130(f)).

Center for Biological Diversity v. California Department of Fish and Wildlife (California Supreme Court GHG Ruling)

In a November 30, 2015, ruling, the California Supreme Court in *Center for Biological Diversity v. California Department of Fish and Wildlife* on the Newhall Ranch project concluded that assessing whether the project was consistent with meeting Statewide emission reduction goals is a legally permissible approach for assessing significance, but the significance finding for the project was not supported by a reasoned explanation based on substantial evidence. The Court offered potential solutions on pages 25–27 of the ruling to address this issue, as summarized below.

Specifically, the Court advised that:

- **Substantiation of Project Reductions from BAU**. A lead agency may use a BAU comparison based on the Scoping Plan's methodology if it also substantiates the reduction a particular project must achieve to comply with Statewide goals. The Court suggested a lead agency could examine the "data behind the Scoping Plan's business-as-usual model" to determine the necessary project-level reductions from new land use development at the proposed location (p. 25).
- **Compliance with Regulatory Programs or Performance Based Standards**. A lead agency "might assess consistency with AB 32's goal in whole or part by looking to compliance with regulatory programs designed to reduce greenhouse gas emissions from particular activities. (See Final Statement of Reasons, supra, at p. 64 [greenhouse gas emissions 'may be best analyzed and mitigated at a programmatic level.'].)" To the extent a project's design features comply with or exceed the regulations outlined in the Scoping Plan and adopted by the Air Resources Board or other state agencies, a lead agency could appropriately rely on their use as showing compliance with 'performance based standards' adopted to fulfill 'a Statewide . . . plan for the reduction or mitigation of greenhouse gas emissions' (CEQA Guidelines § 15064.4(a)(2), (b)(3); see also id., § 15064(h)(3) [determination that impact is not cumulatively considerable may rest on compliance with previously adopted plans or regulations, including 'plans or regulations for the reduction of greenhouse gas emissions']) (p. 26).
- **Compliance with GHG Reduction Plans or Climate Action Plans**. A lead agency may utilize "geographically specific GHG emission reduction plans" such as climate action plans or greenhouse gas emission reduction plans to provide a basis for the tiering or streamlining of project-level CEQA analysis (p. 26).

  Compliance with Local Air District Thresholds. A lead agency may rely on "existing numerical thresholds of significance for greenhouse gas emissions" adopted by, for example, local air districts (p. 27).

3.1.3 - Regional

BAAQMD California Environmental Quality Act Air Quality Guidelines

The BAAQMD is the primary agency responsible for ensuring that air quality standards (NAAQS and CAAQS) are attained and maintained in the SFBAAB through comprehensive planning, regulation, enforcement, technical innovation, and promotion of the understanding of air quality issues. The BAAQMD prepares plans to attain ambient air quality standards in the SFBAAB and prepares ozone attainment plans for the national ozone standard, clean air plans for the California standard, and PM plans to fulfill federal air quality planning requirements. The BAAQMD also inspects stationary sources of air pollution; responds to citizen complaints; monitors ambient air quality and meteorological conditions; and implements programs and regulations required by the CAA and the CCAA.

The BAAQMD developed quantitative thresholds of significance for its CEQA Guidelines in 2010, which were also included in its updated 2011 Guidelines. The BAAQMD's adoption of the 2010 thresholds of significance was later challenged in court. In an opinion issued on December 17, 2015, related to the BAAQMD CEQA Guidelines, the California Supreme Court held that CEQA does not generally require an analysis of the impacts of locating development in areas subject to environmental hazards unless the proposed project would exacerbate existing environmental hazards. The California Supreme Court also found that CEQA requires the analysis of exposing people to environmental hazards in specific circumstances, including the location of development near airports, schools near sources of toxic contamination, and certain exemptions for infill and workforce housing. The California Supreme Court also held that public agencies remain free to voluntarily conduct this analysis not required by CEQA for their own public projects (*CBIA v. BAAQMD (2016)* 2 Cal.App.5th 1067, 1083).

In view of the California Supreme Court's opinion, the BAAQMD published a new version of its CEQA Guidelines in May 2017. The BAAQMD CEQA Guidelines state that local agencies may rely on

Since preparation of this report, BAAQMD has adopted the 2022 CEQA Guidelines. Refer to Section 3, Air Quality, of the IS-MND for an updated discussion on BAAQMD's CEQA Guidelines.

BAAQMD Particulate Matter Plan

To fulfill federal air quality planning requirements, the BAAQMD adopted a $PM_{2.5}$ emissions inventory for the year 2010 at a public hearing on November 7, 2012. The Bay Area Clean Air Plan also included several measures for reducing PM emissions from stationary sources and wood burning. On January 9, 2013, the EPA issued a final rule determining that the Bay Area has attained the 24-hour $PM_{2.5}$ NAAQS, suspending federal SIP planning requirements for the SFBAAB. Despite this EPA action, the SFBAAB will continue to be designated as nonattainment for the national 24-hour $PM_{2.5}$ standard until the BAAQMD submits a redesignation request and a maintenance plan to the EPA, and the EPA approves the proposed redesignation.

The Air Basin is designated nonattainment for the State PM_{10} and $PM_{2.5}$ standards, but the Air Basin is currently unclassified for the federal PM_{10} standard and nonattainment for federal $PM_{2.5}$ standards. The EPA lowered the 24-hour $PM_{2.5}$ standard from 65 µg/m^3 to 35 µg/m^3 in 2006, and designated the Air Basin as nonattainment for the new $PM_{2.5}$ standard effective December 14, 2009.

On December 8, 2011, the ARB submitted a "clean data finding" request to the EPA on behalf of the Bay Area. If the clean data finding request is approved, then EPA guidelines provide that the region can fulfill federal $PM_{2.5}$ SIP requirements by preparing either a redesignation request and a $PM_{2.5}$ maintenance plan, or a "clean data" SIP submittal. Because peak $PM_{2.5}$ levels can vary from year to year based on natural, short-term changes in weather conditions, the BAAQMD believes that it would be premature to submit a redesignation request and $PM_{2.5}$ maintenance plan at this time. Therefore, the BAAQMD will prepare a "clean data" SIP to address the required elements, including:

- An emission inventory for primary $PM_{2.5}$, as well as precursors to secondary PM formation
- Amendments to the BAAQMD's New Source Review regulation to address $PM_{2.5}$

BAAQMD 2017 Clean Air Plan

In May 2017, the BAAQMD adopted the final Bay Area 2017 Clean Air Plan. The BAAQMD prepared the 2017 Clean Air Plan in cooperation with the Metropolitan Transportation Commission (MTC) and the Association of Bay Area Governments (ABAG). The goals of the 2017 Clean Air Plan are to reduce regional air pollutants and climate pollutants to improve the health of Bay Area residents for the next decades. The 2017 Clean Air Plan aims to lead the region into a post-carbon economy, continue progress toward attaining all State and federal air quality standards, and eliminate health risk disparities from air pollution exposure in Bay Area communities. The Plan includes 85 distinct control measures to help the region reduce air pollutants and has a long-term strategic vision that forecasts what a clean air Bay Area will look like in the year 2050. The 2017 Clean Air Plan envisions a future whereby the year 2050:

- Buildings will be energy efficient—heated, cooled and powered by renewable energy.
- Transportation will be a combination of EVs, both shared and privately owned; autonomous public transit fleets; with a large share of trips by bicycling, walking, and transit.
- The Bay Area will be powered by clean, renewable electricity and will be a leading incubator and producer of clean energy technologies leading the world in the carbon-efficiency of our products.
- Bay Area residents will have developed a low carbon lifestyle by driving EVs, living in zero-net-energy homes, eating low carbon foods, and purchasing goods and services with low carbon content.
- Waste will be greatly reduced, waste products will be reused or recycled, and all organic waste will be composted and put to productive use.

The focus of control measures includes aggressively targeting the largest source of GHG, ozone pollutants and particulate matter emissions—transportation. This includes more incentives for EV

infrastructure, off-road electrification projects such as Caltrain and shore power at ports, and reducing emissions from trucks, school buses, marine vessels, locomotives, and off-road equipment. Additionally, the BAAQMD will continue to work with regional and local governments to reduce VMT through the further funding of rideshare, bike and shuttle programs.

In addition to the BAAQMD's 2017 CEQA Air Quality Guidelines, the BAAQMD adopted an updated Justification Report to support BAAQMD newly updated-recommended GHG significance thresholds in April 2022.[37] The Justification Report provides recommended significance thresholds for GHGs for land use development projects and plans and replaces those recommended in the BAAQMD's 2017 CEQA Air Quality Guidelines. The new thresholds state that if a project would contribute its "fair share" of what will be required to achieve California's long-term climate goal of carbon neutrality by 2045, then a reviewing agency can find that the impact will not be significant because the project will help to solve the problem of global climate change. The thresholds for new land use projects require projects to meet either criterion A or criterion B. If a land use development project cannot demonstrate consistency with Criterion A or Criterion B, then that project would result in a potentially significant impact related to GHG emissions.

A. Projects must be consistent with a local GHG reduction strategy that meets the criteria under State CEQA Guidelines Section 15183.5(b).
B. Projects must include, at a minimum, the following project design elements.
    a. Buildings:
        i. The project will not include natural gas appliances or natural gas plumbing (in both residential and nonresidential development).
        ii. The project will not result in any wasteful, inefficient, or unnecessary electrical usage as determined by the analysis required under CEQA Section 21100(b)(3) and Section 15126.2(b) of the State CEQA Guidelines.
    b. Transportation:
        i. Achieve compliance with EV requirements in the most recently adopted version of CALGreen Tier 2.
        ii. Achieve a reduction in project-generated VMT below the regional average consistent with the current version of the California Climate Change Scoping Plan (currently 15 percent) or meet a locally adopted SB 743 VMT target, reflecting the recommendations provided in the Governor's Office of Planning and Research's Technical Advisory on Evaluating Transportation Impacts in CEQA:
            1. Residential projects: 15 percent below the existing VMT per capita.
            2. Office projects: 15 percent below the existing VMT per employee.
            3. Retail projects: no net increase in existing VMT.

[37] Bay Area Air Quality Management District (BAAQMD). 2022. Justification Report: CEQA Thresholds for Evaluating the Significance of Climate Impacts from Land Use Projects and Plans. April.

BAAQMD Regulations

Regulation 2, Rule 1 (Permits–General Requirements)

The BAAQMD regulates new sources of air pollution and the modification and operation of existing sources through the issuances of authorities to construct and permits to operate. Regulation 2, Rule 1 provides an orderly procedure which the project would be required to comply with to receive authorities to construct or permits to operate from the BAAQMD for new sources of air pollutants, as applicable.

Regulation 2, Rule 5 (New Source Review Permitting)

The BAAQMD regulates backup emergency generators, fire pumps, and other sources of TACs through its New Source Review (Regulation 2, Rule 5) permitting process. Although emergency generators are intended for use only during periods of power outages, monthly testing of each generator is required; however, the BAAQMD limits testing to no more than 50 hours per year. Each emergency generator installed is assumed to meet a minimum of Tier 2 emission standards (before control measures). As part of the permitting process, the BAAQMD limits the excess cancer risk from any facility to no more than 10 per 1-million-population for any permits that are applied for within a 2-year period and would require any source that would result in an excess cancer risk greater than 1 per 1 million to install BACT for Toxics.

Regulation 6, Rule 1 (Particulate Matter–General Requirements)

The BAAQMD regulates particulate matter emissions through Regulation 6 by means of establishing limitations on emission rates, emissions concentrations, and emission visibility and opacity. Regulation 6, Rule 1 provides existing standards for particulate matter emissions that could result during project construction or operation that the project would be required to comply with, as applicable, such as the prohibition of emissions from any source for a period or aggregate periods of more than three minutes in any hour which are equal to or greater than 20 percent opacity.

Regulation 6, Rule 6, (Particulate Matter–Prohibition of Trackout)

One rule by which the BAAQMD regulates particulate matter includes Regulation 6, Rule 6, which prohibits particulate matter trackout during project construction and operation. Regulation 6, Rule 6 requires the prevention or timely cleanup of trackout of solid materials onto paved public roads outside the boundaries of large bulk material sites, large construction sites, and large disturbed surface sides such as landfills.

Regulation 8, Rule 3 (Architectural Coatings)

This rule governs the manufacture, distribution, and sale of architectural coatings and limits the ROG content in paints and paint solvents. Although this rule does not directly apply to the proposed project, it does dictate the ROG content of paint available for use during the construction.

Regulation 8, Rule 15 (Emulsified and Liquid Asphalts)

Although this rule does not directly apply to the proposed project, it does dictate the reactive organic gases content of asphalt available for use during the construction through regulating the sale and use of asphalt and limits the ROG content in asphalt.

Regulation 9, Rule 8 (Inorganic Gaseous Pollutants–Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines)

Under Regulation 9, Rule 8, the BAAQMD regulates the emissions of nitrogen oxides and carbon monoxide from stationary internal combustion engines with an output rated by the manufacturer at more than 50 brake horsepower. As such, any proposed stationary source equipment (e.g., backup generators, fire pumps) which would be greater than 50 horsepower would require a BAAQMD permit under Regulation 9, Rule 8 to operate.

Regulation 11, Rule 2 (Hazardous Pollutants–Asbestos Demolition, Renovation, and Manufacturing)

Under Regulation 11, Rule 2, the BAAQMD regulates emissions of asbestos to the atmosphere during demolition, renovation, milling, and manufacturing, and establish appropriate waste disposal procedures. Any of these activities which pose the potential to generate emissions of airborne asbestos are required to comply with the appropriate provisions of this regulation.

Regulation 1, Rule 301 (Odorous Emissions)

The BAAQMD is responsible for investigating and controlling odor complaints in the Bay Area. The agency enforces odor control by helping the public to document a public nuisance. Upon receipt of a complaint, the BAAQMD sends an investigator to interview the complainant and to locate the odor source if possible. The BAAQMD typically brings a public nuisance court action when there are a substantial number of confirmed odor events within a 24-hour period. An odor source with five or more confirmed complaints per year, averaged over 3 years is considered to have a substantial effect on receptors.

Several BAAQMD regulations and rules apply to odorous emissions. Regulation 1, Rule 301 is the nuisance provision that states that sources cannot emit air contaminants that cause nuisance to several people. Regulation 7 specifies limits for the discharge of odorous substances where the BAAQMD receives complaints from 10 or more complainants within a 90-day period. Among other things, Regulation 7 precludes discharge of an odorous substance that causes the ambient air at or beyond the property line to be odorous after dilution with four parts of odor-free air and specifies maximum limits on the emission of certain odorous compounds.

Lastly, the BAAQMD enforces the Portable Equipment Registration Program (PERP) ATCM on behalf of the ARB. Under the PERP, owners or operators of portable engines and other types of equipment which meet the qualifications of the ATCM can register their equipment to operate throughout California. However, owners and operators of portable engines which meet the qualifications of this ATCM that do not register their equipment under the PERP must obtain individual permits from local air districts. Permits issued under the PERP must be honored by all air districts throughout California.

Plan Bay Area 2050

On July 18, 2013, ABAG and the MTC approved the Plan Bay Area. The Plan Bay Area includes integrated land use and transportation strategies for the region and was developed through OneBayArea, a joint initiative between ABAG, BAAQMD, MTC, and the San Francisco Bay Conservation and Development Commission. The plan's transportation policies focus on maintaining the extensive existing transportation network and utilizing these systems more efficiently to handle

density in Bay Area transportation cores. Assumptions for land use development come from local and regional planning documents. Emission forecasts in the Bay Area Clean Air Plan rely on projections of VMT, population, employment, and land use projections made by local jurisdictions during development of Plan Bay Area. The Plan Bay Area 2050 was adopted 2021 and is the most recent update to the Plan Bay Area.

Plan Bay Area 2050, published by the MTC and ABAG, is a long-range integrated transportation and land use/housing strategy through 2050 for the Bay Area. Plan Bay Area 2050 functions as the sustainable communities' strategy mandated by SB 375. As a regional land use plan, Plan Bay Area 2050 aims to reduce per capita GHG emissions by promoting more compact, mixed-use residential and commercial neighborhoods located near transit. Plan Bay Area 2050 is a limited and focused update that builds upon a growth pattern and strategies developed in the original Plan Bay Area but with updated planning assumptions that incorporate key economic, demographic, and financial trends from the release of the previous Plan Bay Area version.

3.1.4 - Local

City of San Leandro General Plan 2035

The City of San Leandro adopted its General Plan on September 19, 2016, which contains objectives and policies that help address air quality and GHGs, and to reduce the community's vulnerability to air pollution. The following objectives and policies from the City's General Plan are relevant to air quality and GHGs, and apply to the proposed project:

EH-3.1 **Clean Air Plan Implementation.** Cooperate with the appropriate regional, state, and federal agencies to implement the region

EH-3.2 **Transportation Control Measures.** Promote strategies that help improve air quality and reduce greenhouse gas emissions by reducing the necessity of driving. These strategies include more reliable public transportation, carpooling and vanpooling programs, employer Transportation Demand Management (TDM) programs, better provisions for bicyclists and pedestrians, and encouraging mixed use and higher density development around transit stations.

EH-3.3 **Land Use Compatibility.** Discourage new uses with potential adverse air quality impacts, including the emission of toxic air contaminants and fine particulates, near residential neighborhoods, schools, hospitals, nursing homes, and other locations where public health could potentially be affected.

EH-3.4 **Design, Construction, and Operation**. Require new development to be designed and constructed in a way that reduces the potential for future air quality problems, such as odors and the emission of any and all air pollutants. This should be done by: (a) Requiring construction and grading practices that minimize airborne dust and particulate matter; (b) Ensuring that Best Available Control Technology is used for operations that could generate air pollutants; (c) Encouraging energy conservation and low-polluting energy sources; (d) Promoting landscaping and tree planting to

absorb carbon monoxide and other pollutants; and (e) Implementing the complementary strategies to reduce greenhouse gases identified in the Climate Action Plan.

EH-3.5 **Odors.** Ensure prompt response to complaints about odor problems and other potential air quality nuisances and hazards reported by residents and businesses.

EH-3.8 **Regulatory Changes.** Stay apprised of changes in State and federal air quality regulations and implement programs as required to ensure local compliance.

EH-3.9 **Alternative Fuel Vehicles.** Promote the development of infrastructure which supports the use of alternative fuel (i.e., electric) vehicles, including electric charging stations and preferential parking for electric vehicles.

EH-3.10 **Downwind Impacts.** Consider the direction of prevailing winds in the siting of facilities likely to generate smoke, dust, and odors. Ensure that such facilities are sited to minimize the impacts on downwind residential areas and other sensitive uses.

OSC-7.2 **Water Conservation.** Promote the efficient use of existing water supplies through a variety of water conservation measures, including the use of recycled water for landscaping.

OSC-7.3 **Drought-Tolerant Landscaping.** Encourage the use of native vegetation and Bay-friendly landscaping and enforce the State Department of Water Resources Model Water Efficient Landscape Ordinance (WELO).

OSC-7.4 **Development Standards.** Maintain local planning and building standards that require the efficient use of water through such measures as low-flow plumbing fixtures and water-saving appliances. Require water conservation measures as a condition of approval for major developments.

OSC-7.8 **Green Building.** Promote green building in new construction and remodels.

OSC-7.9 **Reducing Greenhouse Gases Through Land Use and Transportation Choices.** Locate and design new development in a manner which maximizes the ability to use transit, walk, or bicycle for most trips, reduce dependence on fossil fuel powered vehicles, and reduce vehicle miles traveled.

OSC-8.1 **Conservation and Energy Efficiency.** Strongly advocate for increased energy conservation by San Leandro residents and businesses, and ensure that the City itself is a conservation role model.

OSC-8.2 **Planning and Building Practices.** Encourage construction, landscaping, and site planning practices that minimize heating and cooling costs and ensure that energy is efficiently used. Local building codes and other City regulations and procedures

should meet or exceed state and federal standards for energy conservation and efficiency, and support the City's greenhouse gas reduction goals.

OSC-8.4 **Local Energy Resources.** Accommodate the use of local alternative energy resources, such as solar power, wind, methane gas, and industrial waste heat (cogeneration). Ensure that alternative energy infrastructure is compatible with surrounding land uses and minimizes environmental impacts on the community.

City of San Leandro General Plan 2035 Environmental Impact Report Mitigation

As part of the City's General Plan update, the City prepared an EIR that prescribed a series of mitigation that would apply to future development proposals depending on the proposed activity and the project's land use type. The following lists the General Plan EIR mitigation would apply to the proposed project.[38]

AQ-2 Prior to the issuance of construction permits, development project applicants that are subject to CEQA and exceed the screening sizes in the Bay Area Air Quality Management District's (BAAQMD) CEQA Guidelines shall prepare and submit to the City of San Leandro a technical assessment evaluating potential air quality impacts related to the project's operational phase. The evaluation shall be prepared in conformance with the BAAQMD methodology in assessing air quality impacts. If operational-related criteria air pollutants are determined to have the potential to exceed the BAAQMD thresholds of significance, as identified in BAAQMD's CEQA Guidelines, the City of San Leandro Community Development Department shall require that applicants for new development projects incorporate mitigation measures to reduce air pollutant emissions during operation activities.

AQ-2B-1 As part of the City's development approval process, the City shall require applicants for future development projects to comply with the current Bay Area Air Quality Management District's basic control measures for reducing construction emissions of PM_{10} (Table 8-1, Basic Construction Mitigation Measures Recommended for All Proposed Projects, of the BAAQMD CEQA Guidelines).

AQ-2B-2 Prior to issuance of construction permits, development project applicants that are subject to CEQA and exceed the screening sizes in the BAAQMD's CEQA Guidelines shall prepare and submit to the City of San Leandro a technical assessment evaluating potential project construction-related air quality impacts. The evaluation shall be prepared in conformance with the BAAQMD methodology in assessing air quality impacts. If construction-related criteria air pollutants are determined to have the potential to exceed the BAAQMD thresholds of significance, as identified in the BAAQMD CEQA Guidelines, the City of San Leandro shall require that applicants for new development projects incorporate mitigation measures to reduce air pollutant emissions during construction activities to below these thresholds (Table 8-2, Additional Construction Mitigation Measures Recommended for Projects with

[38] City of San Leandro. 2016. San Leandro General Plan Update Appendix A: Mitigation Monitoring and Reporting Program.

Construction Emissions Above the Threshold, of the BAAQMD CEQA Guidelines, or applicable construction mitigation measures subsequently approved by BAAQMD). These identified measures shall be incorporated into all appropriate construction documents (e.g., construction management plans) submitted to the City and shall be verified by the City's Engineering/Transportation Department, Building and/or Planning Division, and/or Community Development Department.

AQ-3 Applicants for future nonresidential land uses within the City that: (1) have the potential to generate 100 or more diesel truck trips per day or have 40 or more trucks with operating diesel-powered TRUs, and (2) are within 1,000 feet of a sensitive land use (e.g., residential, schools, hospitals, nursing homes), as measured from the property line of a proposed project to the property line of the nearest sensitive use, shall submit a Health Risk Assessment (HRA) to the City of San Leandro prior to future discretionary project approval. The HRA shall be prepared in accordance with policies and procedures of the California Office of Environmental Health Hazard Assessment and the Bay Area Air Quality Management District. If the HRA shows that the incremental cancer risk exceeds 10 in one million (10E-06), $PM_{2.5}$ concentrations exceed 0.3 µg/m^3, or the appropriate non-cancer hazard index exceeds 1.0, the applicant will be required to identify and demonstrate that mitigation measures are capable of reducing potential cancer and non-cancer risks to an acceptable level, including appropriate enforcement mechanisms. Mitigation measures may include but are not limited to:

- Restricting idling on-site beyond Air Toxic Control Measures idling restrictions, as feasible.
- Electrifying warehousing docks.
- Requiring use of newer equipment and/or vehicles.
- Restricting off-site truck travel through the creation of truck routes.

Mitigation measures identified in the project-specific HRA shall be identified as mitigation measures in the environmental document and/or incorporated into the site development plan as a component of a proposed project.

City of San Leandro 2021 Climate Action Plan

The City of San Leandro adopted its CAP on July 19, 2021, which contains objectives and policies that help address the reduction of greenhouse gas. The City of San Leandro's 2021 CAP is considered qualified, meeting CEQA Guidelines. Consistent with CEQA Guidelines Section 15183.5(b), the City's CAP includes adopted plans for the reduction of GHG emissions meeting 2030 reduction targets set forth by SB 32 and the State's long-term climate goal of carbon neutrality by 2045a.

3.1.5 - Thresholds of Significance

Air Quality

The BAAQMD recommends using their established air pollutant and precursor screening criteria, when appropriate, for determining whether a proposed project's air quality emissions would result

in an exceedance of BAAQMD significance thresholds. The BAAQMD's CEQA Air Quality Guidelines contains a series of screening criteria to help identify whether a project may result in potentially significant air quality impacts. If a project exceeds the screening size for the appropriate land use type, that project would present the potential to exceed significance thresholds for criteria pollutants or ozone precursors. As shown in Table 3-1 of the BAAQMD's CEQA Air Quality Guidelines, the operational screening size for the "warehouse" land use type is 864,000 square feet. In addition, the construction-related screening size is 259,000 square feet; however, utilization of the construction screening criteria cannot be relied upon for a significance determination if demolition, substantial soil movement, or more than two concurrent construction phases would occur during project construction.[39] While this analysis includes consideration of these screening criteria, where applicable, emissions from the proposed project's construction and operation have been quantified and are compared against the applicable quantitative significance thresholds for informational purposes.

Table 10 shows the BAAQMD thresholds of significance. In developing the thresholds of significance for air pollutants, the BAAQMD considered the emission levels for which a project's individual emissions would be cumulatively considerable. If a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts on the region's existing air quality conditions.

Table 10: BAAQMD Thresholds of Significance

Pollutant	Construction Thresholds Average Daily Emissions (pounds/day)	Operational Thresholds	
		Average Daily Emissions (pounds/day)	Annual Average Emissions (tons/year)
Criteria Air Pollutants			
ROG	54	54	10
NO_X	54	54	10
PM_{10}	82 (exhaust)	82	15
$PM_{2.5}$	54 (exhaust)	54	10
CO	Not Applicable	9.0 ppm (8-hour average) or 20.0 ppm (1-hour average)	
Fugitive Dust	Construction Dust Ordinance, other Best Management Practices (BAAQMD Basic Construction Mitigation Measures)	Not Applicable	
Health Risks and Hazards for New Sources			
Excess Cancer Risk	$\geq$ 10 per one million	$\geq$ 10 per one million	
Chronic or 1-hour Acute Hazard Index	$\geq$ 1.0	$\geq$ 1.0	
Incremental annual average $PM_{2.5}$	$\geq$ 0.3 µg/m^3	$\geq$ 0.3 µg/m^3	

[39] Bay Area Air Quality Management District (BAAQMD). 2017. CEQA Air Quality Guidelines. May.

Pollutant	Construction Thresholds Average Daily Emissions (pounds/day)	Operational Thresholds	
		Average Daily Emissions (pounds/day)	Annual Average Emissions (tons/year)
Health Risks and Hazards for Sensitive Receptors (Cumulative from All Sources within 1,000-foot Zone of Influence) and Cumulative Thresholds for New Sources			
Excess Cancer Risk	≥ 100 per 1 million		
Chronic Hazard Index	≥ 10.0		
Annual Average $PM_{2.5}$	≥ 0.8 µg/m^3		

Notes:
µg/m^3 = micrograms per cubic meter
CO= carbon monoxide
NO_X = nitrogen oxides
PM_{10} = particulate matter 10 microns in diameter
$PM_{2.5}$ = particulate matter 2.5 microns in diameter
ppm = parts per million
ROG = reactive organic gases
Source: Bay Area Air Quality Management District (BAAQMD). 2017. CEQA Air Quality Guidelines. May.

Greenhouse Gas Emissions

In April 2022, the BAAQMD adopted updated GHG thresholds of significance that represent what is required of new land use development projects to achieve California's long-term climate goal of carbon neutrality by 2045. The BAAQMD has found that new land use development projects being built today need to incorporate the following design element thresholds shown in Table 11 to do their "fair share" of implementing the goal of carbon neutrality by 2045.

Table 11: BAAQMD Climate Change Thresholds for Land Use Projects

Project Must Include A or B, as Outlined Below:
A. Projects must include, at a minimum, the following project design elements: 1. Buildings a. The project will not include natural gas appliances or natural gas plumbing (in both residential and nonresidential development). b. The project will not result in any wasteful, inefficient, or unnecessary energy usage as determined by the analysis required under CEQA Section 21100(b)(3) and Section 15126.2(b) of the State CEQA Guidelines. 2. Transportation a. Achieve a reduction in project-generated Vehicle Miles Traveled (VMT) below the regional average consistent with the current version of the California Climate Change Scoping Plan (currently 15 percent) or meet a locally adopted Senate Bill 743 target, reflecting the recommendations provided in the Governor's Office of Planning and Research's Technical Advisory on Evaluating Transportation Impacts in CEQA: i. Residential projects: 15 percent below the existing VMT per capita ii. Office projects: 15 percent below the existing VMT per employee iii. Retail projects: no net increase in existing VMT b. Achieve compliance with off-street electric vehicle requirements in the most recently adopted version of CALGreen Tier 2.
B. Projects must be consistent with a local GHG reduction strategy that meets the criteria under State CEQA Guidelines Section 15183.5(b)
Source: Bay Area Air Quality Management District (BAAQMD). Justification Report: CEQA Thresholds for Evaluating the Significance of Climate Impacts From Land Use Projects and Plans. April 2022.

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SECTION 4: AIR QUALITY IMPACTS CONSTRAINTS ANALYSIS

According to the CEQA Guidelines Appendix G Environmental Checklist, to determine whether impacts to air quality are significant environmental effects, the following questions are analyzed and evaluated.

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

Would the project:

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

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment 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?

The above questions are analyzed and evaluated below.

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

Less than significant impact. The BAAQMD has adopted several air quality policies and plans to address the attainment and maintenance of State and federal air quality standards. The most recent BAAQMD plan is the 2017 Clean Air Plan, which was adopted in April of 2017. The 2017 Clean Air Plan serves as the regional Air Quality Plan (AQP) for the Air Basin for attaining federal ambient air quality standards. The primary goals of the 2017 Clean Air Plan are to protect public health and protect the climate. The 2017 Clean Air Plan acknowledges that the BAAQMD's two stated goals of protection are closely related. As such, the 2017 Clean Air Plan identifies a wide range of control measures intended to decrease both criteria air pollutants and GHG emissions.[40,41] The 2017 Clean Air Plan also accounts for projections of population growth provided by ABAG and VMT provided by the MTC and identifies strategies to bring regional emissions into compliance with federal and State air quality standards. A project would be judged to conflict with or obstruct the 2017 Clean Air Plan implementation if it would result in substantial new regional emissions not foreseen in the air quality planning process.

[40] The United States Environmental Protection Agency (EPA) has established National Ambient Air Quality Standards (NAAQS) for six of the most common air pollutants—carbon monoxide, lead, ground level ozone, particulate matter, nitrogen dioxide, and sulfur dioxide—known as "criteria" air pollutants (or simply "criteria pollutants").

[41] A greenhouse gas is any gaseous compound in the atmosphere that is capable of absorbing infrared radiation, thereby trapping and holding heat in the atmosphere. By increasing the heat in the atmosphere, greenhouse gases are responsible for the greenhouse effect, which ultimately leads to global warming.

The BAAQMD does not provide a numerical threshold of significance for project-level consistency analysis with AQPs. Therefore, the following criteria will be used for determining a project's consistency with the AQP.

- **Criterion 1:** Does the project support the primary goals of the AQP?
- **Criterion 2:** Does the project include applicable control measures from the AQP?
- **Criterion 3:** Does the project disrupt or hinder implementation of any AQP control measures?

Criterion 1

The primary goals of the 2017 Clean Air Plan, the current AQP to date, are to:

- Attain air quality standards;
- Reduce population exposure to unhealthy air and protecting public health in the Bay Area; and
- Reduce GHG emissions and protect the climate.

A measure for determining whether the proposed project supports the primary goals of the AQP is if the proposed project would result in an increase in the frequency or severity of existing air quality violations, cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the AQPs. The development of the AQP is based, in part, on the General Plan land use determinations of the various cities and counties that constitute the Air Basin. The City of San Leandro General Plan designates the project site as Industrial Transition,[42] which corresponds to areas that have historically been industrial but have transitioned or may transition in the future to a more diverse mix of uses, including general commercial activities. These areas include large floor-plate industrial buildings that can be adaptively reused to serve new technology, advanced manufacturing, and "maker" industries. According to the General Plan, the maximum floor area ratio (FAR), a measurement of the amount of floor space that can be developed on a particular parcel of land, allowed in the Industrial Transition areas is 1.0. The proposed project would include the development of a 52,500-square-foot building that includes 5,000 square feet of office uses and 47,500 square feet of warehouse uses on the proposed project site. As a result, the proposed project would result in a FAR value of 0.35,[43] which would be within the allowable FAR of the Industrial Transition land use. In addition, the proposed project use as a light industrial warehouse would be consistent with the intended use of the General Plan land use designation because the proposed project would be able to be reused for many purposes due to its minimal design features and would include a larger floor-plate. The site would be fully landscaped and irrigated, and will accommodate the required automobile and bike parking, trash enclosure, and off-street loading spaces in the truck court. Therefore, the proposed project is considered consistent with the General Plan land use designation.

The Traffic Impact Analysis (TIA) indicates that the proposed project does not significantly impact traffic operations after the construction of the proposed project.[44] The per employee target VMT in

[42] City of San Leandro. 2017. 2035 General Plan Map. April 19.
[43] Calculation: 52,500 square feet of building area ÷ 150,487-square-foot project site area = 0.349
[44] Kittelson & Associates. 2022. San Leandro 14143 Washington Avenue Industrial Traffic Impact Analysis – Draft. May.

the Central Planning Area is 16.3, which represents a 15 percent reduction from the regional average. Since the proposed project has an average VMT per employee of 15.23, it is therefore located in an area with a per employee VMT below the City's target. As such, it is reasonable to conclude that the proposed project and the associated VMT would be accounted for within the AQP and would be not adversely affect the implementation of the AQP.

Moreover, as further discussed below, the proposed project would not create a localized violation of State or federal air quality standards or significantly contribute to cumulative nonattainment pollutant violations after the application of recommended measures. Therefore, the proposed project would be consistent with Criterion 1.

Criterion 2

The 2017 Clean Air Plan contains 85 control measures that describe specific actions to reduce air pollutants and GHGs at the local, regional, and global levels. Along with the traditional stationary, area, mobile source, and transportation control measures, the 2017 Clean Air Plan contains several control measures designed to protect the climate, promote mixed use, and compact development to reduce vehicle emissions and exposure to pollutants from stationary and mobile sources. The 2017 Clean Air Plan also includes an account of the implementation status of control measures identified in the 2010 Clean Air Plan.

Table 12 lists the relevant Clean Air Plan policies to the proposed project and evaluates the proposed project's consistency with the policies. As shown below, the proposed project would be consistent with applicable measures.

Table 12: Project Consistency with Applicable Clean Air Plan Control Measures

Control Measure	Project Consistency
Buildings Control Measures	
BL1: Green Buildings	**Consistent.** The proposed project would not conflict with implementation of this measure. The proposed project will comply with the applicable State and local energy efficiency standards and incorporate applicable energy efficiency features designed to reduce project energy consumption. Furthermore, the City of San Leandro Building Code Enforcement department would verify all Green Building Code measures would be included in project design and plans during the permit review process.
BL4: Urban Heat Island Mitigation	**Consistent.** The proposed project would incorporate landscaping throughout the site. The proposed project would provide landscaping in accordance with City standards that would serve to reduce the urban heat island effect and would comply with the applicable requirements of the City's Tree Ordinance.
Energy Control Measures	
EN1: Decarbonize Electricity Generation	**Consistent.** The proposed project would not conflict with the implementation of this measure. The proposed project would comply with the latest energy efficiency standards such as the 2022 California Title 24 Energy Code and incorporate applicable energy efficiency features designed to reduce project energy consumption.

Control Measure	Project Consistency
EN2: Decrease Electricity Demand	**Consistent.** The project applicant would be required to conform to the California Building Standards Code energy efficiency requirements, also known as Title 24, which was adopted to meet an Executive Order in the Green Building Initiative to improve the energy efficiency of buildings through aggressive standards. The 2022 Title 24 Standards went into effect on January 1, 2023. Proposed buildings that receive building permits after January 1, 2023, are subject to the 2022 Title 24 Standards.
Natural and Working Lands Control Measures	
NW2: Urban Tree Planting	**Consistent.** The proposed project would incorporate landscaping throughout the site. The proposed project would provide landscaping according to City standards that would reduce the urban heat island effect and would comply with the applicable requirements of the City's Tree Ordinance.
WA3: Green Waste Diversion	**Consistent.** The proposed project's waste service provider will be required to meet the Assembly Bill (AB) 341, Senate Bill (SB) 939, and SB 1374 requirements that require waste service providers to divert green waste. All plant and green refuse generated during operations of the proposed project would be recycled off-site.
WA4: Recycling and Waste Reduction	**Consistent.** The proposed project's waste service provider will be required to meet the AB 341, SB 939, and SB 1374 requirements that require waste to be recycled. The proposed project would be required to recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste per 2022 California Green Building. Standard Code.
Stationary Control Measures	
SS36: Particulate Matter from Trackout	**Consistent.** Mud and dirt that may be tracked out onto the nearby public roads during construction activities should be removed promptly by the contractor based on the BAAQMD's requirements. General Plan Mitigation Measure (MM) AQ-2B-1 would require the implementation of Best Management Practices (BMPs) recommended by BAAQMD for fugitive dust emissions during construction. As this mitigation measure would apply to all new development in the City, the proposed project would be required to implement these BMPs as part of compliance with existing regulations.
SS37: Particulate Matter from Asphalt Operations	**Consistent.** Asphalt used during project construction would be subject to BAAQMD Regulation 8, Rule 15-Emulsified and Liquid Asphalts. Although this rule does not directly apply to the proposed project, it does limit the ROG content of asphalt available for use during construction through regulating the sale and use of asphalt. By using asphalt from facilities that meet BAAQMD regulations, the proposed project would be consistent with this Clean Air Plan measure.
Transportation Control Measures	
TR9: Bicycle and Pedestrian Access and Facilities	**Consistent.** The site will accommodate the required automobile and bike parking facilities. Existing sidewalks would be accessible along Washington Avenue. The proposed project would not limit or obstruct pedestrian or bicycle access in the vicinity of the project site. Therefore, the proposed project would not conflict with, and would be consistent with, the BAAQMD's effort to encourage planning for bicycle and pedestrian facilities.
Source: Bay Area Air Quality Management District (BAAQMD). 2017. Final 2017 Clean Air Plan. April 19.	

Additionally, General Plan Mitigation Measure (MM) AQ-2B-1 would ensure applicants of future development projects, including the proposed project, would comply with the current BAAQMD basic control measures for reducing construction emissions of PM_{10}. As this mitigation measure would apply to all new development in the City, the proposed project would be required to implement these BMPs as part of compliance with existing regulations. In summary, the proposed project would not conflict with any applicable measures under the 2017 Clean Air Plan; therefore, the proposed project would be consistent with Criterion 2.

Criterion 3

The proposed project would not preclude extension of a transit line or bike path, propose excessive parking beyond parking requirements, or otherwise create an impediment or disruption to implementing any AQP control measures. Table 12 illustrates that the proposed project would incorporate several AQP control measures as project design features. Considering this information, the proposed project would not disrupt or hinder the implementation of any AQP control measures. Therefore, the proposed project would be consistent with Criterion 3.

Summary

As addressed above, the proposed project would be consistent with all three criteria. Thus, the proposed project would not conflict with the 2017 Clean Air Plan. Therefore, impacts associated with conflicting with or obstructing the 2017 Clean Air Plan's implementation would be less than significant.

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

Less than significant impact. This impact is related to the cumulative effect of a project's regional criteria pollutant emissions. By its nature, air pollution is largely a cumulative impact resulting from emissions generated over a large geographic region. The nonattainment status of regional pollutants results from past and present development within the Air Basin, and this regional impact is a cumulative impact. Therefore, new development projects (such as the proposed project) within the Air Basin would contribute to this impact only on a cumulative basis. No single project would be sufficient in size, by itself, to result in nonattainment of regional air quality standards. Instead, a project's emissions may be individually limited, but cumulatively considerable when evaluated in combination with past, present, and future development projects.

Potential localized and regional impacts could result in exceedances of State or federal standards for NO_X, particulate matter (PM_{10} and $PM_{2.5}$), or carbon monoxide (CO). NO_X emissions are of concern because of potential health impacts from exposure to NO_X emissions during construction and operation and as a precursor in the formation of ground level ozone. PM_{10} and $PM_{2.5}$ are of concern during construction because the operation of off-road construction equipment generates emissions of particulate matter consisting of uncombusted fuel and fugitive dust. Particulate matter is also of concern during both construction and operation due to the operation of motor vehicles generating aerated brake particulates and aerated tire particulates from vehicle wear and tear. CO emissions are

of concern during project operation because operational CO hotspots are related to increases in on-road vehicle congestion and their consequential health impacts.

ROG emissions are also important because of their participation in the formation of ground level ozone. Ozone is a respiratory irritant and an oxidant that increases susceptibility to respiratory infections that can cause substantial damage to vegetation and other materials. Excessive ozone concentrations result in reduced lung function, particularly during vigorous physical activity. This health problem is particularly acute in sensitive receptors such as the sick, elderly, and young children.

The cumulative analysis focuses on whether a specific project would result in cumulatively considerable emissions. According to Section 15064(h)(4) of the CEQA Guidelines, the existence of significant cumulative impacts caused by other projects alone does not constitute substantial evidence that the project's incremental effects would be cumulatively considerable. Rather, the determination of cumulative air quality impacts for construction and operational emissions is based on whether that project would result in regional emissions that exceed the BAAQMD thresholds of significance for construction and operations on a project level. The thresholds of significance represent the allowable emissions each project can generate without generating a cumulatively considerable contribution to regional air quality impacts. Therefore, a project that would not exceed the BAAQMD thresholds of significance on a project level also would not be considered to result in a cumulatively considerable contribution to these regional air quality impacts. Construction and operational emissions are discussed separately below.

Construction Emissions

During construction, fugitive dust would be generated from site preparation, grading, and other earthmoving activities. The majority of this fugitive dust would remain localized and deposited near the project site; however, the potential for impacts from fugitive dust exists unless control measures are implemented to reduce this source's emissions. Exhaust emissions would also be generated from the operation of the off-road construction equipment. As required by General Plan MM AQ-2B-2, this construction-related air quality analysis was prepared according to BAAQMD CEQA Guidelines.

Construction Fugitive Dust

The BAAQMD does not recommend a numerical threshold for fugitive dust particulate matter emissions. Instead, the BAAQMD bases the determination of significance for fugitive dust on a consideration of the control measures to be implemented, referred to as BMPs. If all appropriate emissions control measures are implemented for a project as recommended by the BAAQMD, then fugitive dust emissions during construction are not considered significant. During construction activities, air pollution control measures would be implemented as outlined in General Plan MM AQ-2B-1. MM AQ-2B-1 is required for all development projects within the City of San Leandro and includes the same basic construction measures as the BAAQMD measures. With the incorporation of this measure, short-term construction impacts associated with a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or State ambient air quality standard would be less than significant for fugitive dust.

Construction Air Pollutant Emissions: ROG, NO_X, PM_{10}, and $PM_{2.5}$ (Exhaust Emissions)

As previously mentioned, the BAAQMD's CEQA Air Quality Guidelines identifies that the construction screening size for a warehouse development is 259,000 square feet; however, utilization of the BAAQMD's construction screening criteria cannot be relied upon for a significance determination if demolition, substantial soil movement, or more than two concurrent construction phases would occur during project construction.[45] As the proposed project would involve the demolition of approximately 9,000 square feet of building space and 100,000 square feet of pavement, the proposed project is disqualified from utilizing the BAAQMD's construction screening criteria. The significance of the proposed project's construction impacts are therefore determined utilizing a quantitative analysis of project emissions against the BAAQMD's criteria pollutant and ozone precursor significance thresholds.

California Emissions Estimator Model (CalEEMod), Version 2020.4.0, was used to estimate the proposed project's construction emissions. CalEEMod provides a consistent platform for estimating construction and operational emissions from various land use projects and is the model recommended by the BAAQMD for estimating project emissions. Estimated construction emissions are compared with the applicable thresholds of significance established by the BAAQMD to assess ROG, NO_X, exhaust PM_{10}, and exhaust $PM_{2.5}$ construction emissions to determine significance for this impact.

As presented in Table 13, the proposed project's construction is expected to start in January 2023 and conclude in February 2024. It should be noted that if the construction schedule moved to later years, construction emissions would likely decrease because of improvements in technology, replacement of older polluting equipment with newer and cleaner equipment, and the imposition of more stringent regulatory requirements. See Appendix A for more detailed modeling assumptions and information.

Table 13: Project Construction Schedule

The project construction schedule has been updated since preparation of this report. Refer to Table 2 in the Project Description of the IS-MND, and the updated CalEEMod results included at the end of this appendix.

[45] Bay Area Air Quality Management District (BAAQMD). 2017. CEQA Air Quality Guidelines. May.

According to applicant-provided information, the proposed project would involve the demolition and removal of an estimated 9,000 square feet of existing structures and 100,000 square feet of hardscape demolition. Average daily construction emissions are compared with the significance thresholds in Table 14. It should be noted that the emission estimates shown in Table 14 include the implementation of General Plan MM AQ-2B-1, which includes the BMPs recommended by the BAAQMD to reduce potential impacts related to fugitive dust emissions from construction equipment.

Table 14: Unmitigated Construction Emissions (Average Daily Rate)

Refer to the updated CalEEMod results included at the end of this appendix.

As shown in Table 14, the average daily construction emissions from all construction activities are below the BAAQMD thresholds of significance; therefore, project construction would have a less than significant impact regarding emissions of ROG, NO_X, exhaust PM_{10}, and exhaust $PM_{2.5}$. As previously discussed, the proposed project would implement General Plan MM AQ-2B-1 for the BMPs recommended by the BAAQMD to reduce potential impacts related to fugitive dust emissions from construction equipment. In addition, the proposed project would not satisfy the BAAQMD's construction screening criteria and would therefore require a detailed emissions analysis to

demonstrate potential impacts and identify necessary mitigation, as required under MM AQ-2B-2 of the City's General Plan EIR. As demonstrated herein, the proposed project's detailed emissions analysis shows that project construction would result in less than significant construction impacts with respect to a cumulative considerable increase in criteria air pollutants. Therefore, the proposed project would be compliant with General Plan MM AQ-2B-2, and project construction impacts would be less than significant.

Operational Emissions

Operational Air Pollutant Emissions: ROG, NO_X, PM_{10}, and $PM_{2.5}$

Operational emissions would include area, energy, and mobile sources. Area sources would include emissions from architectural coatings, consumer products, and landscape equipment. Energy sources include emissions from the combustion of natural gas for water heaters and other heat sources. Mobile sources include exhaust and road dust emissions from the automobiles that would travel to and from the project site. Stationary sources include emissions from stationary source equipment, such as backup generators, which would require a permit issued by the BAAQMD. Pollutants of concern include ROG, NO_X, PM_{10}, and $PM_{2.5}$.

As previously mentioned, Table 3-1 of the BAAQMD's CEQA Air Quality Guidelines identifies the operational screening size for the "warehouse" land use type to be 864,000 square feet. As such, the proposed project falls within this operational screening size, and the proposed project would be consistent with the requirements of General Plan MM AQ-2. Specifically, General Plan MM AQ-2 requires an operations-related air quality assessment that evaluates potential project operational emissions according to the BAAQMD CEQA Guidelines. Nonetheless, the proposed project's operational emissions have been quantified and are compared against the applicable quantitative significance thresholds for informational purposes.

As indicated by the construction schedule provided in Table 13, the proposed project is anticipated to be fully operational after completion of construction activities in February 2024. Therefore, the proposed project's operational emissions are based on full buildout starting in 2024 and are presented in Table 15.

According to the TIA for the proposed project, the proposed project is expected to generate a total of 260 daily trips.[46] In addition, the project applicant identified the need for a fire pump to be included in the project; however, the specifics related to the fire pump were unknown at the time of this analysis. The exact location, type of fire pump, and size of the fire pump were unknown at the time of this analysis. As such, the proposed project was assumed to include the operation of a diesel-fueled, 500-horsepower fire pump for 50 hours a year, the maximum annual hours permitted by the BAAQMD for non-emergency maintenance and testing purposes. It should be noted that the emission estimates provided below do not include the emissions generated by operations currently existing on the project site, which would reduce the proposed project's incremental increase of

[46] Kittelson & Associates. 2022. San Leandro 14143 Washington Avenue Industrial Traffic Impact Analysis – Draft. May.

emissions. Therefore, the emission estimates provided in this analysis serve as a conservative assessment of the proposed project's operational impacts.

Table 15: Unmitigated Operational Emissions

Refer to the updated CalEEMod results included at the end of this appendix.

Operational Carbon Monoxide Hotspot

The CO emissions from traffic generated by the proposed project are a concern at the local level because congested intersections can result in high, localized concentrations of CO (referred to as a CO hotspot).

The BAAQMD recommends a screening analysis to determine whether a project has the potential to contribute to a CO hotspot. The screening criteria identify when site-specific CO dispersion modeling is necessary. The proposed project would result in a less than significant impact to air quality for local CO emissions if all of the following screening criteria are met:

- The project is consistent with an applicable congestion management program established by the county congestion management agency for designated roads or highways, regional transportation plan, and local congestion management agency plans; and
- The project traffic would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour; and
- The project traffic would not increase traffic volumes at affected intersections to more than 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, bridge underpass, natural or urban street canyon, below-grade roadway).

Congestion Management Program Consistency

To determine whether the proposed project would be consistent with the applicable congestion management program, the TIA for the proposed project analyzed the potential impact on VMT. As described in the TIA, the City of San Leandro has not adopted specific methodology or thresholds for evaluating VMT. As such, the proposed project's VMT impacts were evaluated against the methodology and recommendations outlined in the Alameda County Transportation Commission (CTC) per the Governor's Office of Planning and Research (OPR) Technical Advisory. The Alameda CTC has developed detailed maps and an online Geographic Information System (GIS) tool showing the VMT generated for each Traffic Analysis Zone (TAZ), as well as data tables showing the average VMT figures by city, planning area, and county for model years 2020 and 2040. The TIA determined that the appropriate VMT threshold for the proposed project would be the Central Planning Area because this planning area encompasses the City of San Leandro and Hayward, which have similar land use densities and types as the proposed project. In addition, the TIA describes that the Central Planning Area VMT per employee average threshold is appropriate for this project and not the Alameda County-wide VMT per employee average threshold because at the County level, the north, south, east, and central Planning Areas were included which encompasses various land use types including high-density areas with high transit, pedestrian and bike access, which is not characteristic of the project site and immediate vicinity.

The TIA describes that OPR requires, before any VMT analysis is undertaken, that the proposed project must undergo screening using the City's screening criteria to determine whether it can be expected to cause a less than significant impact without conducting a detailed VMT study. OPR and Alameda CTC's suggested screening criterion for projects analyzed under the employment-industrial threshold is:

- If the project has less than 110 weekday daily trips per day.
- If there is high-capacity transit (15-minute frequency) within half mile of the project available.
- If the project is located in areas with below Central Planning Area average VMT per employee.

The Central Planning Area average VMT per employee generates 19.2 VMT per employee with a 15 percent reduction goal of 16.3. As a result, if the proposed project would result in 16.3 VMT or less then it would meet the screening criterion. As shown in Figure 4 of the TIA,[47] The proposed project site is in a TAZ with an average VMT per employee of 15.23. As a result, the proposed project's operational VMT would be in an area with more than 15 percent VMT below the Central Planning Area average and the proposed project would be consistent with the Alameda CTC. Therefore, the proposed project would not conflict with an applicable congestion management program established by the county congestion management agency for designated roads or highways.

Traffic Volumes More Than 44,000 Vehicles Per Hour

As indicated by the TIA, the proposed project would generate an estimated 44 total AM peak-hour vehicle trips and 40 total PM peak-hour vehicle trips. The proposed project would generate approximately 260 daily vehicle trips with 204 passenger vehicles trips and 56 heavy heavy-duty (HHD) truck trips.

The TIA analyzed the proposed project's impact to cumulative traffic conditions on nearby intersections. The intersection with the most vehicles per hour would occur at the Washington Avenue and Halcyon Drive intersection during the PM peak-hour. During the Cumulative Plus Project conditions 5,017 vehicles per hour would travel through this intersection, which is less than 44,000 vehicles. Therefore, the proposed project is not anticipated to cause any nearby roadway segment or intersection to exceed 44,000 vehicles per hour.

Traffic Volumes More Than 24,000 Vehicles Per Hour Where Vertical and/or Horizontal Mixing is Substantially Limited

Nonetheless, CO hotspots can occur when a transportation facility's design or orientation prevents the adequate dispersion of CO emissions from vehicles, resulting in the accumulation of local CO concentrations. The design or orientation of a transportation facility that may prevent CO emissions dispersion includes tunnels, parking garages, bridge underpasses, natural or urban canyons, below-grade roadways, or other features where vertical or horizontal atmospheric mixing is substantially limited. Aside from a BART overpass approximately 550 feet east of the project site, adjacent roadways that would receive new vehicle trips generated by the proposed project do not include roadway segments where vertical or horizontal atmospheric mixing is substantially limited. Therefore, based on the above criteria, the proposed project would not exceed the CO screening criteria and would have a less than significant impact related to CO.

c) Expose sensitive receptors to substantial pollutant concentrations?

Less than significant impact. The BAAQMD defines sensitive receptors as the following: "Facilities or land uses that include members of the population that are particularly sensitive to the effects of air pollutants, such as children, the elderly, and people with illnesses. Examples include schools, hospitals, and residential areas." In this analysis, the Maximally Impacted Sensitive Receptor (MIR)

[47] Kittelson and Associates. May 2022. San Leandro 14143 Washington Avenue Industrial Traffic Impact Analysis, Figure 4: VMT Per Employee Central Planning Area Screening Map.

during project construction was identified as the closest residence to the project site approximately 500 feet to the southwest.

The following four criteria were applied to determine whether the proposed project would significantly impact the exposure of sensitive receptors to project emissions based on the health risk and hazard significance thresholds shown in Table 10. The proposed project would be considered to have a significant impact if:

- **Criterion 1:** Construction of the project would exceed the health risk significance thresholds.
- **Criterion 2:** The cumulative health impact would exceed the cumulative health risk significance thresholds.
- **Criterion 3:** The project's operation would result in an exceedance of the health risk significance thresholds.
- **Criterion 4:** A CO hotspot assessment demonstrates that the project would result in a CO hotspot development that would cause an exceedance of the CO ambient air quality standards.

Criterion 1: Project Construction Toxic Air Pollutants

An assessment was made of the potential health impacts to surrounding sensitive receptors resulting from TAC emissions during construction. A summary of the assessment is provided below, while the detailed assessment is provided as part of Appendix A.

DPM has been identified by the ARB as a carcinogenic substance. Major sources of DPM include off-road construction equipment and heavy-duty delivery truck and worker activities. For purposes of this analysis, DPM is represented as exhaust emissions of $PM_{2.5}$.

Estimation of Construction DPM Emissions

Construction DPM emissions were estimated using CalEEMod, Version 2020.4.0, as described under the discussion for Impact(b). As presented in Table 16, the proposed project's construction is anticipated to occur from January 2023 through February 2024. It is important to note that the proposed project would be constructed over a single construction phase, becoming operational upon completion.

The emissions generated on-site were assumed to be distributed as an area source over the entire project site. Off-site emissions generated by the exhaust from the various construction vehicles was represented as a volume source as the traffic travels within 1,000 feet of the project site along Washington Avenue, 139th Avenue, and 143rd Avenue. On-site and off-site emissions generated during project construction were modeled with a working schedule of 8 hours per day, 5 days per week. Table 16 presents the unmitigated project DPM construction on-site and off-site emissions.

Table 16: Project DPM Construction Emissions

Refer to the updated CalEEMod results included at the end of this appendix.

To assess impacts to off-site sensitive receptors during full project construction and on-site sensitive receptors during project construction, the American Meteorological Society/EPA Regulatory Model (AERMOD) air dispersion model was used to estimate the DPM emission concentrations at nearby sensitive receptors within 1,000 feet of the project site.

Estimation of Cancer Risks

The BAAQMD has developed a set of guidelines for estimating cancer risks resulting from exposure to TACs.[48,49] These guidelines recommend the use of Hotspots Analysis and Reporting Program (HARP2) software to identify the cancer risk associated with DPM generated during construction activities. The HARP2 risk scenario inputs used to calculate cancer risk during project construction are summarized below and provided, in detail, as part of Appendix A:

1. Receptor Type: Individual Resident
2. Exposure Duration: User Defined (Tier 2)–2 Years, Third Trimester Start Age
   - Third Trimester Bin: 0.25 year
   - 0<2 Years Bin: 2 years
3. Intake Rate Percentile: 95th (High End)
4. Pathways to Evaluate: Inhalation Only

Estimation of Non-Cancer Hazards

An evaluation of the potential non-cancer effects of chronic chemical exposures was also conducted. Risk characterization for non-cancer health hazards from TACs is expressed as a HI. The HI is a ratio of the predicted concentration resulting from the proposed project's emissions to the specific REL for the TAC being analyzed. RELs are airborne concentrations of a chemical that are not anticipated to result in adverse non-cancer health effects for specified exposure durations in the general population, including sensitive subpopulations. The HI assumes that chronic sub-threshold exposures adversely affect a specific organ or organ system (toxicological endpoint). For each

[48] Bay Area Air Quality Management District (BAAQMD). 2016. BAAQMD Air Toxics NSR Program Health Risk Assessment Guidelines.
[49] Bay Area Air Quality Management District (BAAQMD). 2020. BAAQMD Health Risk Assessment Modeling Protocol.

discrete chemical exposure, target organs presented in regulatory guidance were used. Each chemical concentration or dose is divided by the appropriate toxicity reference exposure level to calculate the HI. For compounds affecting the same toxicological endpoint, this ratio is summed. Where the total equals or exceeds 1, a health hazard is presumed to exist. For purposes of this assessment, the TAC of concern is DPM for which the California Office of Environmental Health Hazard Assessment (OEHHA) has defined a chronic REL for DPM of 5 micrograms per cubic meter ($\mu g/m^3$). The principal toxicological endpoint assumed in this assessment was through inhalation.

The acute HI is a ratio of maximum 1-hour average concentrations of TACs in the air to established RELs. An acute HI below 1.0 indicates that adverse non-cancer health effects from infrequent short-term exposure are not expected. As previously noted, the TAC of concern for this project is DPM. The OEHHA and ARB have not established acute toxicity factors for DPM.

Estimation of Health Risks and Hazards from Project Construction

Table 17 summarizes the cancer risk and HI results for unmitigated project construction at the MIR, a single-family residence approximately 500 feet southwest of the project site. As shown in Table 17, $PM_{2.5}$ exhaust emissions generated during unmitigated project construction would result in an incremental cancer risk of approximately 7.29 individuals per one million, which is below the BAAQMD's significance threshold of 10 individuals per one million.

Table 17: Estimated Cancer Risks and Chronic Non-Cancer Hazards (Unmitigated)

Impact Scenario	Cancer Risk (risk per million)	Chronic Non-Cancer Hazard Index[1]	TAC Concentration ($\mu g/m^3$)
Residential MIR	7.29	<0.01	0.02
Thresholds of Significance	**10**	**1**	**0.3**
Exceeds Individual Source Threshold?	**No**	**No**	**No**

Notes:
DPM = diesel particulate matter
MIR = Maximally Impacted Sensitive Receptor
$PM_{2.5}$ = particulate matter, including dust, 2.5 micrometers or less in diameter
REL = reference exposure level
TAC = toxic air contaminants
$\mu g/m^3$ = micrograms per cubic meter
[1] Chronic non-cancer hazard index was estimated by dividing the annual DPM concentration (as $PM_{2.5}$ exhaust) by the DPM REL of 5 $\mu g/m^3$.
Emissions Source: Appendix A.
Thresholds Source: Bay Area Air Quality Management District (BAAQMD). 2017. California Environmental Quality Act Air Quality Guidelines.

As shown in Table 17 above, the proposed project's construction emissions would not exceed any applicable BAAQMD significance threshold. Therefore, project construction would not result in significant health impacts to nearby sensitive receptors.

Criterion 2: Cumulative Health Risk Assessment

The BAAQMD recommends assessing the potential cumulative impacts from sources of TACs within 1,000 feet of a project. As a result, a cumulative HRA was performed that examined the cumulative impacts of the proposed project's construction emissions and sources of TAC emissions within 1,000 feet of the project site. As previously discussed, the MIR was determined to be a residence approximately 500 feet southwest of the project site.

- **Health Risks for Local Roadways.** The BAAQMD pre-calculated concentrations and the associated potential cancer risks and $PM_{2.5}$ concentration increases for each county within their jurisdiction for roadways that carry at least 30,000 average daily trips. For certain areas, the BAAQMD also includes local roadways that meet BAAQMD's "major roadway" criteria of 10,000 vehicles or 1,000 trucks per day. The latest available screening tool is in the form of a GIS raster file. The BAAQMD Raster Tool and data was used to provide the basis for the cumulative cancer risk and hazard analysis. The proposed project is located within the BAAQMD designated Western Alameda County Community Air Risk Evaluation (CARE) Program area; therefore, the BAAQMD's Local Roadway tool will account for nearby roadways that experience at least 10,000 vehicles per day.[50,51]
- **Freeway Screening Analysis Tool**. The BAAQMD prepared a GIS tool that contains pre-estimated cancer risk and $PM_{2.5}$ concentration increases for highways within the Bay Area. The closest highways to the project site are I-880 approximately 2,830 feet to the west, Highway 185 approximately 2,600 feet to the east, and I-580 approximately 4,800 feet to the east.
- **Stationary Source Risk and Hazard Screening Tools**. The BAAQMD prepared a web-based tool with the location of permitted stationary sources. For each emissions source, the BAAQMD provides conservative estimates of cancer risk and $PM_{2.5}$ concentrations. Based on information from the GIS tool, three BAAQMD-permitted stationary sources exist within approximately 1,000 feet of the project site.[52]
- **Rail Screening Tools.** The BAAQMD prepared GIS tools that contains estimated cancer risks and $PM_{2.5}$ concentrations from railroad operations at any point within the Air Basin. The closest rail line to the proposed project is adjacent to the western boundary of the project site.

The cumulative HRA results are summarized during project construction in Table 18. Cumulative health risk results shown therein are representative of the health risks to the MIR that would experience the highest concentration of pollutants and associated cancer risks.

[50] Bay Area Air Quality Management District (BAAQMD). 2023. Health Risk Screening and Modeling. Website: https://www.baaqmd.gov/plans-and-climate/california-environmental-quality-act-ceqa/ceqa-tools/health-risk-screening-and-modeling. Accessed May 24, 2023.

[51] Bay Area Air Quality Management District (BAAQMD). 2023. Community Air Risk Evaluation Program. Website: https://www.baaqmd.gov/community-health/community-health-protection-program/community-air-risk-evaluation-care-program. Accessed May 24, 2023.

[52] Bay Area Air Quality Management District (BAAQMD). 2022. Permitted Stationary Sources Risk and Hazards. Permitted Stationary Sources Risk and Hazards. Website: https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html?id=2387ae674013413f987b1071715daa65. Accessed July 13, 2022.

Table 18: Summary of the Cumulative Health Impacts at the MIR during Construction

Source	Source Type	Distance from MIR[1] (feet)	Cancer Risk (per million)	Chronic HI	$PM_{2.5}$ Concentration ($\mu g/m^3$)
Project					
Project Construction	Diesel Construction Equipment	500	7.29	<0.01	0.02
Roadways					
Existing Local Roadway Network		–	1.53	ND	0.04
Freeways					
Existing Freeways		>1,000	20.32	ND	0.33
Stationary					
The Garage Body Shop Facility ID 11632	ND	740	ND	ND	ND
Rodgers Trucking Facility ID 111710	Gas Dispensing Facility	570	<0.01	0.00	0.00
City of San Leandro Facility ID 106590	Gas Dispensing Facility	140	0.59	0.00	0.00
Rail					
Existing Rail Lines		10	12.28	ND	0.02
Cumulative Health Risks					
Cumulative Maximum with Project DPM Emissions			**42.01**	**<0.01**	**0.41**
BAAQMD's Cumulative Thresholds of Significance			**100**	**10**	**0.8**
Threshold Exceedance?			**No**	**No**	**No**

Notes:
BAAQMD = Bay Area Air Quality Management District
DPM = diesel particulate matter
HI = health index
MIR = Maximally Impacted Sensitive Receptor
ND = No Data
$PM_{2.5}$ = particulate matter, including dust, 2.5 micrometers or less in diameter
$\mu g/m^3$ = micrograms per cubic meter
[1] The MIR was identified as a residence approximately 500 feet southwest of the project site.
[2] Assumes emissions remain constant with time.
Source: Appendix A.

As noted in Table 18 above, the cumulative impacts from project construction and existing sources of TACs would be less than the BAAQMD cumulative thresholds of significance. Therefore, the proposed project would not be cumulatively considerable or result in a significant cumulative health risk impact.

Criterion 3: Project-Specific Operational Toxic Air Pollutants

The proposed project is a warehouse project and would not be a specific land use which may result in substantial amounts of on-site sources of TACs during operation, such as metal smelting or refineries. Although a diesel fire pump is included in the operational modeling and is assumed to be 500 horsepower and to be operative for up to 50 hours per year, it was included to present a conservative estimate of regional emissions. However, the specifics related to the fire pump were unknown at the time of this analysis. Any proposed stationary source equipment (e.g., backup generators, fire pumps) which would be greater than 50 horsepower would require permitting through the BAAQMD to be installed and operated. Therefore, a diesel fire pump greater than 50 horsepower would be subject to permitting under BAAQMD Regulation 2–Permits and any rules identified during the permitting process. Compliance with BAAQMD permitting would require any potential fuel-powered fire pump to include BACT, which would include emissions control techniques. Compliance with mandatory permitting requirements would ensure that permitted source would not have a significant impact related to health risk impacts. Specifically, the BAAQMD evaluates health risk impacts from the proposed source and requires that the equipment permit unit shall not be operated contrary to the conditions specified in the permit to operate.

According to the ARB's Air Quality and Land Use Handbook: A Community Health Perspective,[53] projects should avoid siting new sensitive receptors within 1,000 feet of warehouse type land uses that accommodates more than 100 trucks per day, more than 40 trucks with operating Transport Refrigeration Units (TRUs) per day, or where TRU unit operations exceed 300 hours per week. Moreover, General Plan MM AQ-3 requires a Health Risk Assessment (HRA) be prepared according to BAAQMD and OEHHA procedures if a project would have the potential to generate 100 or more diesel truck trips per day or have 40 or more trucks with operating diesel-powered TRUs, and is within 1,000 feet of a sensitive land use. As such, the proposed project is analyzed against the land use types and activities identified in the ARB's Air Quality and Land Use Handbook to provide a screening determination of whether the proposed project could result in a potentially significant health impact to existing sensitive receptors within 1,000 feet of the project site during project operation, necessitating the preparation of site-specific air dispersion modeling.

As described previously, the proposed project would not include cold storage or TRUs. Further, the proposed project would result in an estimated 56 truck trips daily, which is described in the project-specific TIA[54] and included in the air quality modeling. As a result, the proposed project would not constitute a land use or activity described in the ARB's Air Quality and Land Use Handbook that would warrant site-specific air dispersion modeling to determine associated impacts. ARB's Air Quality and Land Use Handbook and the City's General Plan MM AQ-3specify that site-specific air dispersion modeling should be conducted if a site accommodates greater than 100 trucks daily, as these projects could result in potentially significant health impacts to nearby sensitive receptors during operation. Other vehicle trips generated by the proposed project would principally consist of passenger vehicles and would not represent a substantial source of TAC emissions. Therefore, the

[53] California Air Resources Board (ARB). 2005. Air Quality and Land Use Handbook: A Community Health Perspective.
[54] Kittelson & Associates. 2022. San Leandro 14143 Washington Avenue Industrial Traffic Impact Analysis – Draft. May.

passenger vehicle and trucking activities during project operation are not anticipated to result in a substantial TAC source which may significantly impact nearby sensitive receptors.

Criterion 4: Carbon Monoxide Hotspot Analysis

As discussed under Impact(b), the operational CO hotspot impact as a result of project operations would be less than significant.

As discussed above, the proposed project's potential impacts to sensitive receptors during project construction and operation would be less than significant, thereby demonstrating compliance with General Plan EIR MM AQ-3. As such, this impact would be less than significant.

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

Less than significant impact. As stated in the BAAQMD 2017 Air Quality Guidelines,[55] odors are generally regarded as an annoyance rather than a health hazard. The ability to detect odors varies considerably among the populations and is subjective. The BAAQMD does not have a recommended odor threshold for construction activities. However, the BAAQMD recommends operational screening criteria based on the distance between receptors and types of sources known to generate odors. For projects within the screening distances, the BAAQMD has the following threshold for project operations:

Two circumstances have the potential to cause odor impacts:

- A source of odors is proposed to be located near existing or planned sensitive receptors, or
- A sensitive receptor land use is proposed near an existing or planned source of odor.

Projects that would introduce a new odor source or a receptor farther than the applicable screening distance, shown in Table 19 below, would not likely result in a significant odor impact.

Table 19: Odor Screening Distances

Land Use/Type of Operation	Project Screening Distance
Wastewater Treatment Plant	2 miles
Wastewater Pumping Facilities	1 mile
Sanitary Landfill	2 miles
Transfer Station	1 mile
Composting Facility	1 mile
Petroleum Refinery	2 miles
Asphalt Batch Plant	2 miles
Chemical Manufacturing	2 miles

[55] Bay Area Air Quality Management District (BAAQMD). 2017. Bay Area Air Quality Management District California Environmental Quality Act Air Quality Guidelines. May.

Land Use/Type of Operation	Project Screening Distance
Fiberglass Manufacturing	1 mile
Painting/Coating Operations	1 mile
Rendering Plant	2 miles
Coffee Roaster	1 mile
Food Processing Facility	1 mile
Confined Animal Facility/Feed Lot/Dairy	1 mile
Green Waste and Recycling Operations	1 mile
Source: Bay Area Air Quality Management District (BAAQMD). 2017. Final 2017 Clean Air Plan. April 19.	

Project Construction

Diesel exhaust and ROGs would be emitted during the construction of the proposed project, which may be objectionable to some; however, emissions would disperse rapidly from the project site and therefore would not create objectionable odors affecting a substantial number of people. As such, construction odor impacts would be less than significant.

Project Operation

Land uses typically associated with odors include wastewater treatment facilities, waste disposal facilities, agricultural operations, or other operations listed in Table 19. The proposed project would introduce a light industrial warehouse development that is not expected to produce any offensive odors that would result in odor complaints. During operation of the proposed project, odors would primarily consist of exhaust from passenger vehicles and HHD trucks traveling to and from the site. These occurrences would not produce objectionable odors affecting a substantial number of people because exhaust emissions are temporary and immediately disperse into the atmosphere such that no individual receptors near the site would be impacted. Therefore, operational impacts associated with the proposed project's potential to create objectionable odors or expose a substantial number of people to objectionable odors would be less than significant. Mitigation

General Plan Mitigation

The following General Plan Mitigation Measures are relevant to the proposed project: AQ-2, AQ-2B-1, AQ-2B-2, and AQ-3. However, the air quality impact analysis above has demonstrated consistency with the following measures: AQ-2, AQ-2B-2, AQ-3. The mitigation measure below would be required during construction of the proposed project:

AQ-2B-1 As part of the City's development approval process, the City shall require applicants for future development projects to comply with the current Bay Area Air Quality Management District's basic control measures for reducing construction emissions of PM_{10} (Table 8-1, Basic Construction Mitigation Measures Recommended for All Proposed Projects, of the BAAQMD CEQA Guidelines).

AQ-3 Applicants for future nonresidential land uses within the City that: (1) have the potential to generate 100 or more diesel truck trips per day or have 40 or more trucks with operating diesel-powered TRUs, and (2) are within 1,000 feet of a sensitive land use (e.g., residential, schools, hospitals, nursing homes), as measured from the property line of a proposed project to the property line of the nearest sensitive use, shall submit a Health Risk Assessment (HRA) to the City of San Leandro prior to future discretionary project approval. The HRA shall be prepared in accordance with policies and procedures of the California Office of Environmental Health Hazard Assessment and the Bay Area Air Quality Management District. If the HRA shows that the incremental cancer risk exceeds 10 in one million (10E-06), $PM_{2.5}$ concentrations exceed 0.3 $\mu g/m^3$, or the appropriate non-cancer hazard index exceeds 1.0, the applicant will be required to identify and demonstrate that mitigation measures are capable of reducing potential cancer and non-cancer risks to an acceptable level, including appropriate enforcement mechanisms. Mitigation measures may include but are not limited to:

- Restricting idling on-site beyond Air Toxic Control Measures idling restrictions, as feasible.
- Electrifying warehousing docks.
- Requiring use of newer equipment and/or vehicles.
- Restricting off-site truck travel through the creation of truck routes.

Mitigation measures identified in the project-specific HRA shall be identified as mitigation measures in the environmental document and/or incorporated into the site development plan as a component of a proposed project.

Additional Recommended Mitigation

None recommended.

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SECTION 5: GREENHOUSE GAS EMISSIONS IMPACT ANALYSIS

According to the CEQA Guidelines Appendix G Environmental Checklist, to determine whether impacts to GHG emissions are significant environmental effects, the following questions are analyzed and evaluated.

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

Would the project:

a) 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?

The above questions are analyzed and evaluated below.

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?

Less than significant impact. The proposed project would generate GHG emissions due to construction activity and project operations. According to the BAAQMD, if a project is consistent with an adopted Qualified Greenhouse Gas Reduction Strategy that addresses the project's GHG emissions, it can be presumed that the proposed project will not have significant GHG emission impacts. A Qualified Greenhouse Gas Reduction Strategy (or similar adopted policies, ordinances, and programs) is one that is consistent with all of the AB 32 Scoping Plan and SB 32 measures and goals.[56] In addition, the proposed project's estimated GHG emissions during construction and operation are presented for informational purposes only.

Construction

The proposed project would generate GHG emissions during construction activities, resulting from emission sources such as construction equipment, haul trucks, and construction worker vehicles. Although these emissions would be temporary and short-term in nature, they could represent a substantial contribution of GHG emissions. Construction emissions were modeled using CalEEMod Version 2020.4.0. Table 20 below, shows the annual construction GHG emissions.

[56] Bay Area Air Quality Management District (BAAQMD). May 2017. CEQA Guidelines.

Table 20: Proposed Project Construction GHG Emissions

Refer to the updated CalEEMod results included at the end of this appendix and Table 17 of the IS-MND.

Operation

Operational or long-term emissions occur over the life of the project. Project operations were modeled for the 2024 operational year, immediately following the completion of construction. Sources for operational GHG emissions include:

- **Motor Vehicles:** These emissions refer to GHG emissions contained in the exhaust from the cars and trucks that would travel to and from the project site.
- **Natural Gas:** These emissions refer to the GHG emissions that occur when natural gas is burned on the project site. Natural gas uses could include heating water, space heating, dryers, stoves, or other uses.
- **Stationary:** These emissions refer to the GHG emissions that would be emitted when a diesel-powered 500 HP fire pump is tested for up to 50 hours per year. However, the specifics related to the fire pump were unknown at the time of this analysis. The exact location, type of fire pump, and size of the fire pump were unknown at the time of this analysis. As such, the proposed project was assumed to include the operation of a diesel-fueled, 500-horsepower fire pump for 50 hours a year, the maximum annual hours permitted by the BAAQMD for non-emergency maintenance and testing purposes, to provide a conservate estimate of emissions.
- **Indirect Electricity:** These emissions refer to those generated by off-site power plants to supply electricity required for the project.
- **Area Sources:** These emissions refer to those produced during activities such as landscape maintenance.

- **Water Transport:** These emissions refer to those generated by the electricity required to transport and treat the water to be used on the project site.
- **Waste:** These emissions refer to the GHG emissions produced by decomposing waste generated by the project.

Table 21 presents the estimated annual GHG emissions from the project's operational activities.

Table 21: Proposed Project Operational Emissions

Refer to the updated CalEEMod results included at the end of this appendix and Table 18 of the IS-MND.

On July 19, 2021, the City of San Leandro updated its CAP, which outlines strategies for reducing GHG emissions through various activities, including but not limited to water conservation, energy conservation, land use design and orientation, transportation-oriented development, and renewable energy source use. According to the CAP, "The CAP is prepared consistent with CEQA Guidelines for Plans for the Reduction of Greenhouse Gas Emissions (CEQA Guidelines § 15183.5). This allows the 2021 CAP to support and possibly streamline environmental review of GHG emissions related to future development projects within the City." Therefore, consistent with the BAAQMD's significance threshold criterion B—as shown in Table 11—and CEQA Guidelines Section 15183.5, determining the significance the proposed project's impacts related to GHG emissions and consistency with a local plan or policy adopted for the purpose of reducing GHG emissions is based on whether the proposed project would comply with the goals and policies of the City's CAP. Table 22 presents the goals and measures contained therein, if these goals and measures would apply to the proposed project, and how the proposed project would be consistent.

Table 22: Consistency with San Leandro Climate Action Plan Update

San Leandro CAP Reduction Measure	Project Consistency
Building Efficiency (BE)	
BE-1: Electrified retrofits. Incentivize significant building retrofits with fewer or no natural gas appliances to reduce pollution and increase cost savings.	**Not applicable.** The proposed project would include the development of a new light industrial warehouse and would not retrofit existing buildings.
BE-2: Electrified new construction. Commit to developing a reach code limiting natural gas use in new construction, or as directed by the State or regional agencies.	**Not applicable.** The City of San Leandro has not adopted a reach code limiting natural gas use in new construction; this calls for the City to commit to developing a reach code limiting natural gas use in new construction and would not be applicable at the individual development project level. However, the proposed project would be built to the latest Title 24 standards in effect at the time building permits are issued.
Residential Energy Efficiency (RF)	
RF-1: Increase education and outreach for existing energy efficiency financing mechanisms, including the Program for All-Inclusive Elder Care (PACE) programs and utility programs. Create new financing programs, such as a revolving loan program. **RF-2:** Prioritize City-funded energy retrofit programs in majority people of color census tracts or high energy cost burdened households. **RF-3:** Homeowner energy retrofits. Continue to promote energy efficiency programs and incentives available to residential property owners. **RF-4:** Work with landlords and tenants' groups to increase energy efficiency and decrease energy costs in rental homes, including multi-family properties. Mitigate displacement risk by strengthening tenant protections, including relocation assistance and right of return for tenants temporarily displaced by housing retrofits. Utilize methods such as the green lease to address the split incentive issue and prevent tenants paying for property improvements.	**Not applicable.** The proposed project would include the development of a new light industrial warehouse and would not include residential uses.
Renewable Energy (RE)	
RE-1: East Bay Community Energy participation Encourage San Leandro households and businesses to switch from PG&E electricity supplies to East Bay Community Energy, and commit to defaulting to Renewable 100 tier for 100 percent renewable energy.	**Consistent**. The project site is located in the East Bay Community Energy service area and tenants would be able to register for this electricity provider.
RE-2: Residential owner-occupied renewable energy Promote greater adoption of renewable energy generation and energy storage systems on owner-	**Not Applicable**. The proposed project would include the development of a new light industrial warehouse and would not include residential uses.

San Leandro CAP Reduction Measure	Project Consistency
occupied new and existing homes. Leverage existing solar financing, tax, and rebate opportunities, and consider new financial incentives as needed. **RE-3:** Prioritize increasing and installing renewable energy generation systems and energy storage systems on rental homes, multi-family buildings, and affordable housing.	
RE-4: Increase renewable energy generation and energy storage capacity at nonresidential properties. Encourage the use of non-fossil fuel backup generation systems as much as possible.	**Consistent.** The proposed project would be required to comply with City Municipal Code Chapter 7-5, Article 6 Green Building Code, which would require all new development to be consistent with Title 24, including the provision for solar-ready rooftop infrastructure.
(AD)	
AD-1: Traffic calming. Continue to provide the Neighborhood Traffic Calming Program and related efforts to reduce travel speeds and cut through traffic in residential areas.	**Consistent**. The proposed project would not include a roadway that could be used to cut through residential neighborhoods and would facilitate travel to the proposed project driveways.
AD-2: Transit-oriented development. Continue to concentrate multi-family development and pedestrian-oriented mixed-use development within existing [Transit Oriented Development] TOD areas and along major transit corridors.	**Not Applicable**. The proposed project include the development of a new light industrial warehouse and is not located within a TOD area.
AD-3: Infill development. Focus new housing development on underutilized or vacant infill sites on flatter lands and continue to discourage new development in hillside areas.	**Not Applicable**. The proposed project include the development of a new light industrial warehouse and would not include residential uses.
AD-4: Evaluate parking standards. Evaluate parking standards and continue to support shared parking and other efforts to ensure the availability of necessary parking while reducing vehicle miles traveled.	**Consistent**. The proposed project would provide parking consistent with development standards contained in Municipal Code.
(AT)	
AT-1: Transportation Demand Management (TDM). Require local employers above a certain number of employees to develop programs that promote ride sharing, flextime, telecommuting, and other means to reduce commute trips and congestion, and target 10 percent mode shift	**Consistent.** Although the number of employees that would be employed by the proposed project is unknown at the time of preparation of this report, the proposed project would comply with any City TDM programs should they apply. In addition, the CAP does not provide a numerical number of employees where a TDM program would be applicable.
AT-2: Bicycle infrastructure. Expand San Leandro's bicycle network and supportive bicycle infrastructure, including funding buildout of the City's bicycle network as identified in the current Bicycle and Pedestrian Master Plan, to meet commute trip, non-commute trip, and recreational needs.	**Consistent.** The proposed project would not inhibit the expansion of the City's bicycle network, because it would be consistent with existing Building Codes and would not prevent the installation of bicycle lanes or infrastructure adjacent to the project site.

San Leandro CAP Reduction Measure	Project Consistency
AT-3: Active transportation and micro-mobility. Commit to implementing bikeshare, scooters, and micro-mobility options, and accompanying creative payment options, such as accepting cash deposits for access. **AT-4:** Walkability. Improve walkability of all streets and paths in San Leandro, including removing barriers to walking and adding places of rest and shade. Prioritize new infrastructure and modernized curb ramps in majority people of color census tracts and near assisted living facilities and senior centers. **AT-5:** Public transit. Work collaboratively with AC Transit and BART for abundant, affordable, and accessible public transit through improved service frequency, coverage, and quality throughout San Leandro. Support efforts to increase schedule integration. **AT-6:** BART shuttles. Continue LINK and FLEX shuttle bus services connecting BART stations and other major activity centers, including efforts to improve shuttle efficiency and comprehensiveness. **AT-7:** Car sharing. Expand car sharing through additional incentives, location of car sharing sites, and education and outreach. **AT-8:** Autonomous vehicles. Explore opportunities to effectively reduce GHG emissions associated with autonomous vehicles.	**Not Applicable.** These CAP measures would be the responsibility of the City of San Leandro to implement and not individual development projects.
(TE)	
TE-1: Electric vehicle adoption. Conduct education and outreach to inform members of the public about the availability of EVs, and the economic incentives available to encourage EV adoption. **TE-2:** Increase the availability of publicly accessible EV charging stations at multi-family residential buildings, retail centers, offices, and public facilities.	**Consistent.** The proposed project includes the development of a new light industrial warehouse that would be subject to Title 24 requirements mandating EV charging infrastructure.
TE-3: Alternative commercial fuels. Support increases in community-wide uses of biomethane, biofuels from sustainable sources, and other emerging clean fuel technologies. **TE-4:** Municipal fleet fuel reduction. Further reduce fossil fuel use in municipal fleet operations. **TE-5:** EV financing. Support funding mechanisms (e.g., revolving loan fund, grants, public bank finance) to enable low-income truck owner-operators to upgrade to EVs without undue debt burden. **TE-6:** Electric taxis and TNCs. Promote fuel efficiency and alternative fuels for taxis and Transportation Network Companies (TNCs), including a funding mechanism to support ride sharing drivers to move	**Not Applicable.** These CAP measures would be the responsibility of the City of San Leandro to implement and not individual development projects.

San Leandro CAP Reduction Measure	Project Consistency
from fossil-fueled cars to EVs (e.g., require Lyft/Uber to pay for upgrade).	
(WM)	
WM-1: Increased curbside recycling. Increase participation in curbside recycling programs, including efforts to reduce material contamination and improvements to waste educational programs.	**Consistent**. The proposed project would comply with the City's construction debris and waste recycling ordinance. The proposed project would be provided waste removal services by Oro Loma Sanitary District, which provides recycling services for residential uses.
WM-2: Curbside composting. Expand participation in composting programs, including partnerships with community organizations such as StopWaste and a mandatory curbside composting program for all businesses.	**Consistent**. The Oro Loma Sanitary District would provide Green Waste bins for the proposed project's waste disposal and the proposed project would participate in composting by separating landscaping and yard waste into the appropriate bins.
WM-3: Recycling expansion. Continue to promote programs for recycling electronic waste and other materials that are not accepted in curbside bins.	**Not Applicable**. This CAP measure would be the responsibility of the City of San Leandro to implement and not individual development projects.
(WR)	
WR-1: Waste minimization. Explore emerging opportunities for waste minimization, including maker spaces, material reuse, and tool-lending libraries.	**Not Applicable**. This CAP measure would be the responsibility of the City of San Leandro to implement and not individual development projects.
WR-2: Construction and Demolition waste. Explore opportunities to exceed State requirements for construction and demolition materials by encouraging deconstruction and material reuse.	**Consistent**. The proposed project construction contractor would be required to comply with Municipal Code Section 3-7 related to construction waste and debris recycling.
WR-3: Commercial food waste reduction. Work with restaurants and other food-processing businesses to reduce food waste.	**Not Applicable.** The proposed project would not include commercial land uses.
WR-4: Industrial waste reduction. Work with business leaders and organizations to reduce industrial waste, including packaging materials.	**Consistent.** The proposed project owners would coordinate and work with the City on any industrial waste reduction goals or programs that would apply.
WR-5: Styrofoam and single-use plastics reduction. Continue to enforce bans on Styrofoam for food-related businesses and explore opportunities to reduce single-use plastic items. **WR-6:** Local compost. Support programs for locally-produced compost, including programs run by local and regional partners.	**Not Applicable**. This CAP measure would be the responsibility of the City of San Leandro to implement and not individual development projects.
(WE)	
WE-1: Reclaimed water. Expand San Leandro's reclaimed water system. **WE-2:** Greywater retrofits. Support installation of greywater recycling systems and other systems that capture runoff for domestic use and landscaping.	**Not Applicable**. This CAP measure would be the responsibility of the City of San Leandro to implement and not individual development projects.

San Leandro CAP Reduction Measure	Project Consistency
WE-3: Water-efficient retrofits. Promote water efficiency in existing homes and businesses.	
WE-4: New Greywater Installations. Continue to require water conservation and green infrastructure strategies as a condition of approval for major developments.	**Consistent.** The proposed project would include drought landscaping consistent with Title 24 and City of San Leandro requirements that would be appropriate for the local climate and contribute to conserving outdoor water use.
(CC)	
CC-1: Environmentally Preferred Purchasing. Continue to promote and enforce Environmentally Preferred Purchasing policies for City operations and encourage community businesses to adopt similar policies. **CC-2: Local Goods and Services.** Continue Keep It Local SL campaign efforts and encourage businesses providing a variety of goods and services to locate in San Leandro. **CC-3: Low Carbon Building Materials.** Work with local, regional, and State partners to expand the awareness of, availability, and cost-effectiveness of low carbon or carbon-free construction materials.	**Not Applicable.** These CAP measures would be the responsibility of the City of San Leandro to implement and not individual development projects.
CC-4: Carbon Sequestration. Promote increasing soil carbon and planting high carbon sequestering, climate appropriate species in landscaping projects.	**Consistent.** The proposed project would include landscaping consistent with City of San Leandro requirements that would be appropriate for the local climate and contribute to carbon sequestration on-site.
(EF)	
EJ-1: Green Job Training. Maximize opportunities for green jobs by supporting workforce training and other economic development activities in a manner that supports labor unions and improved equity. **EJ-2: Workforce Equity.** Prioritize formerly incarcerated individuals, individuals with barriers to employment for green workforce development programs through 'ban the box' and other procurement standards. Perform culturally-sensitive targeted outreach for these programs. **EJ-3: Just Transition.** Work to replace environmentally harmful industries with green jobs in a manner that benefits the health and well-being of workers from these industries.	**Not Applicable.** These CAP measures would be the responsibility of the City of San Leandro to implement and not individual development projects.
Source of San Leandro CAP Reduction Measures: City of San Leandro 2021 Climate Action Plan. July 21, 2021.	

As shown in Table 22, the proposed project would be consistent with the City's 2021 CAP and as a result, would be consistent with an adopted Qualified Greenhouse Gas Reduction Strategy that

addresses the proposed project's GHG emissions. Therefore, the proposed project would not generate GHG emissions that would have a significant impact on the environment and impacts would be less than significant.

5.1 - Mitigation

General Plan Mitigation

None.

Additional Recommended Mitigation

None.

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SECTION 6: CONCLUSION

Based on the project understanding described above, the proposed project would result in less than significant impacts to air quality after incorporation of General Plan MM AQ-2B-1. As this mitigation measure would apply to all new development in the City, the proposed project would be required to implement these BMPs as part of compliance with existing regulations and would not be considered a new, additional mitigation measure.

The analysis further determined that the proposed project would not generate criteria pollutant, TAC, or GHG emissions, either directly or indirectly, that may have a significant impact on the environment or surrounding receptors; nor would the proposed project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing GHG emissions.

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Appendix A:
Air Quality Supporting Information and Modeling Results

Updated CalEEMod results using the most recent version (version 2022.1.1.19) of CalEEMod have been prepared since the preparation of this report, and supersede the modeling results contained herein. The original CalEEMod results of this report have been omitted and the updated CalEEMod results are included at the end of this appendix.

Project Operational Emissions Summary

Operational Emissions (tons/year)

Emissions Source	ROG	NO_x	PM_{10} (Total)	$PM_{2.5}$ (Total)	CO_2e (Metric Tons)
	Tons per Year				
Area	0.24	0.00	-	-	0.00
Energy	0.00	0.01	0.00	0.00	33.92
Mobile	0.11	0.57	0.32	0.09	432.79
Stationary	0.02	0.06	0.00	0.00	9.55
Total	**0.38**	**0.63**	**0.32**	**0.09**	**476.27**
BAAQMD Significance Thresholds	10	10	15	10	N/A
Exceeds Threshold?	**No**	**No**	**No**	**No**	**N/A**
Note: Zeros above represent values that are less than 0.005 due to rounding. True zero values are represented with "-".					

Average Daily Construction Emissions (lbs/day)

Parameter	ROG	NO_x	PM_{10} (Total)	$PM_{2.5}$ (Total)
Total Emissions (tons)	0.38	0.63	0.32	0.09
Total Emissions (lbs)	751	1,267	645	187
Average Daily Emissions (lbs/day)	**2.06**	**3.47**	**1.77**	**0.51**
BAAQMD Significance Thresholds	54	54	82	54
Project Exceeds Threshold?	**No**	**No**	**No**	**No**

Modeling Files:

Name: Washington Avenue Industrial Project - Alameda County, Annual

Date: 7/27/2022 8:06 AM

HARP2 - HRACalc (dated 21081) 7/22/2022 10:14:24 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 2

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False

Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

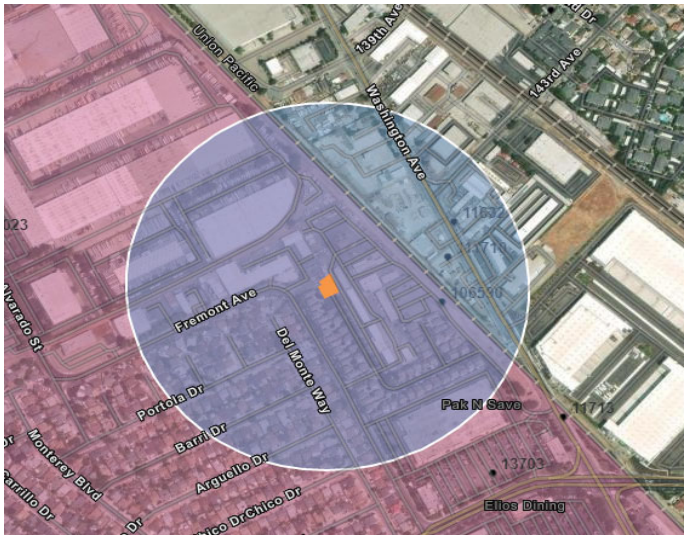
Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|DBRs changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\01. Project Files\41940003 Washington Ave\HARP2\41940003 WASHINGTON AVE\hra\Washington Ave_CancerRisk.csv
Cancer risk total by receptor saved to: C:\01. Project Files\41940003 Washington Ave\HARP2\41940003 WASHINGTON AVE\hra\Washington Ave_CancerRiskSumByRec.csv
HRA ran successfully

Existing Stationary Sources within 1,000 Feet of the MIR

MIR Lat, Long: 37.70468°N -122.145885°E



Permitted Stationary Sources within 1,000 feet of the MIR:

1	Facility ID 11632	The Garage Body Shop
2	Facility ID 111710	Rodgers Trucking
3	Facility ID 106590	City of San Leandro

Facility ID 11632 - The Garage Body Shop

The Garage Body Shop	
Facility ID	11632
Name	The Garage Body Shop
Address	14336 Washington Ave
City	San Leandro
St	CA
Zip	94578
County	Alameda
Cancer (per million)	0.000
Hazard	0.000
PM_2.5 (ug/m3)	0.000
Type	Contact BAAQMD
Latitude	37.706
Longitude	-122.144

Distance from MIR: 740

BAAQMD Health Risk Calculator

Data provided by BAAQMD:

Cancer Risk: No Data Provided by BAAQMD
Chronic HI: No Data Provided by BAAQMD
PM2.5 (ug/m3): No Data Provided by BAAQMD
Source Type: No Data Provided by BAAQMD

Data Adjusted for Distance to MIR:

Cancer Risk: Not Available
Chronic HI: Not Available
PM2.5 (ug/m3): Not Available
Source Type: Not Available

Facility ID 111710 - Rodgers Trucking

Rodgers Trucking	
Facility ID	111710
Name	Rodgers Trucking
Address	14327 Washington Ave
City	San Leandro
St	CA
Zip	94578
County	Alameda
Cancer (per million)	0.130
Hazard	0.000
PM_2.5 (ug/m3)	0.000
Type	Gas Dispensing Facility
Latitude	37.705
Longitude	-122.144

Distance from MIR: 570

Data provided by BAAQMD:

Cancer Risk: 0.130
Chronic HI: 0.000
PM2.5 (ug/m3): 0.000
Source Type: Gas Station

Data Adjusted for Distance to MIR:

Cancer Risk: 0.005
Chronic HI: 0.000
PM2.5 (ug/m3): 0.000
Source Type: Gas Station

BAAQMD Health Risk Calculator

Gas Station				
Distance (meters)	Distance (feet)	Distance adjustment multiplier	Enter Risk or Hazard	Adjusted Risk or Hazard
0	0.0	1.000		0.0000
165	541.3	0.040		0.0000
170	557.7	0.038	0.13	0.0049
175	574.1	0.036		0.0000

Facility ID 106590 - City of San Leandro

City of San Leandro	
Facility ID	106590
Name	City of San Leandro
Address	14200 Chapman Rd
City	San Leandro
St	CA
Zip	94578
County	Alameda
Cancer (per million)	1.620
Hazard	0.010
PM_2.5 (ug/m3)	0.000
Type	Gas Dispensing Facility
Latitude	37.705
Longitude	-122.144

Distance from MIR: 140

Data provided by BAAQMD:

Cancer Risk: 1.620
Chronic HI: 0.000
PM2.5 (ug/m3): 0.000
Source Type: Gas Station

Data Adjusted for Distance to MIR:

Cancer Risk: 0.591
Chronic HI: 0.000
PM2.5 (ug/m3): 0.000
Source Type: Gas Station

BAAQMD Health Risk Calculator

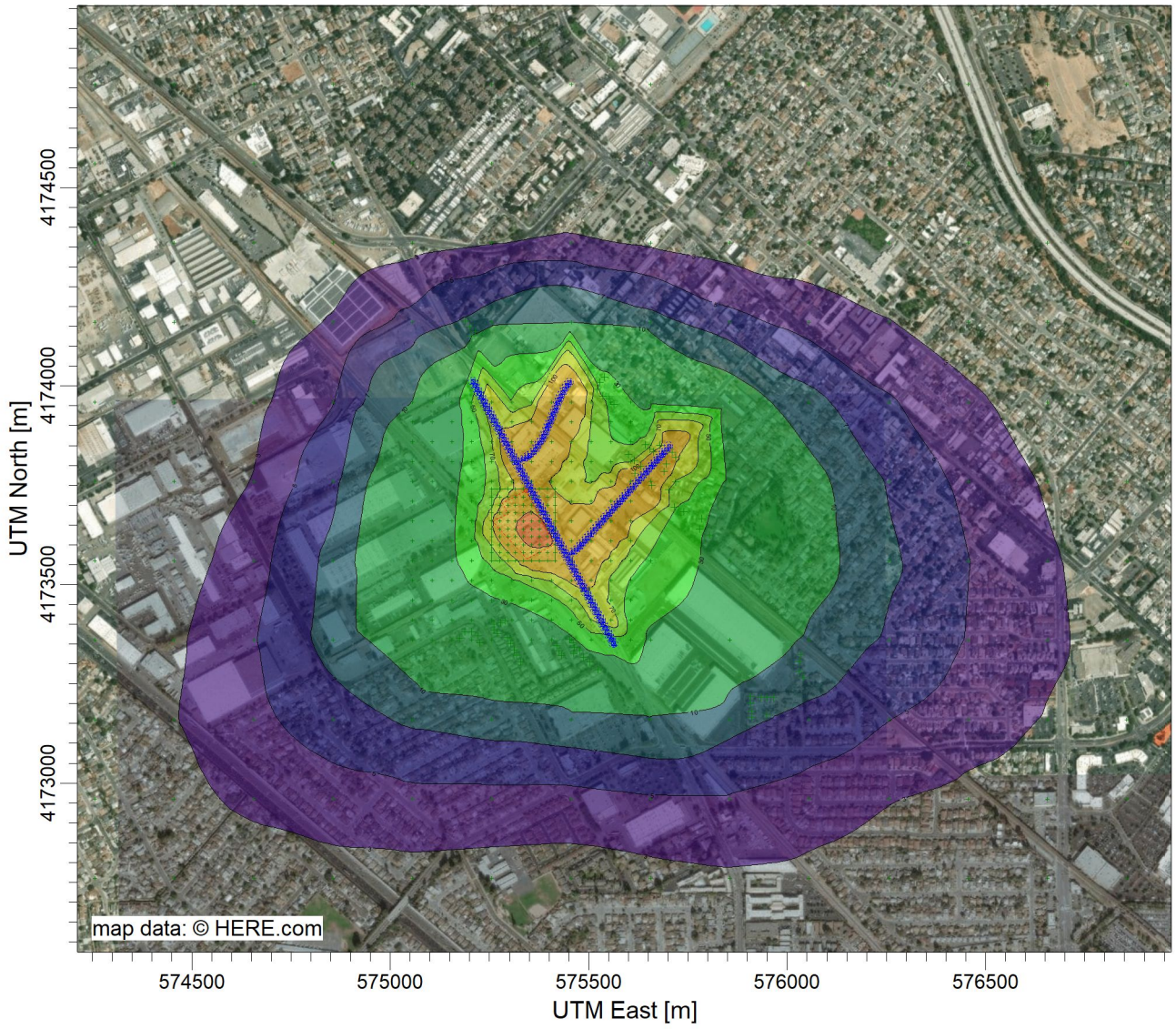
Gas Station				
Distance (meters)	Distance (feet)	Distance adjustment multiplier	Enter Risk or Hazard	Adjusted Risk or Hazard
0	0.0	1.000		0.0000
35	114.8	0.445		0.0000
40	131.2	0.365	1.62	0.5908
45	147.6	0.305		0.0000

HARP2 Calculation Results - Sorted by Cancer Risk

Receptors			UTM Coordinates		Cancer Risk		
REC No.	REC ID	Concentration ($\mu g/m^3$)	X	Y	HARP2 INH_RISK	Cancer Risk (per million)	Chronic HI
13	13	0.02130093	575288.26	4173408.30	7.29E-06	7.29	0.004260186
14	14	0.02066108	575278.06	4173403.63	7.07E-06	7.07	0.004132216
15	15	0.02036802	575260.44	4173400.23	6.97E-06	6.97	0.004073604
1	1	0.01889426	575452.01	4173362.57	6.46E-06	6.46	0.003778852
10	10	0.01889426	575452.01	4173362.57	6.46E-06	6.46	0.003778852
31	31	0.01889426	575452.01	4173362.57	6.46E-06	6.46	0.003778852
39	39	0.01889426	575452.01	4173362.57	6.46E-06	6.46	0.003778852
54	54	0.01889426	575452.01	4173362.57	6.46E-06	6.46	0.003778852
63	63	0.01889426	575452.01	4173362.57	6.46E-06	6.46	0.003778852
16	16	0.01826325	575260.44	4173385.79	6.25E-06	6.25	0.00365265
25	25	0.01811885	575188.03	4173381.35	6.20E-06	6.20	0.00362377
24	24	0.01807875	575205.72	4173380.81	6.18E-06	6.18	0.00361575
2	2	0.0179122	575460.24	4173353.17	6.13E-06	6.13	0.00358244
42	42	0.01755005	575658.63	4173750.09	6.00E-06	6.00	0.00351001
58	58	0.01712312	575616.55	4173780.59	5.86E-06	5.86	0.003424624
46	46	0.01703324	575716.65	4173695.60	5.83E-06	5.83	0.003406648
17	17	0.01701699	575269.14	4173376.87	5.82E-06	5.82	0.003403398
23	23	0.01678295	575221.79	4173370.34	5.74E-06	5.74	0.00335659
3	3	0.01661376	575463.18	4173341.12	5.68E-06	5.68	0.003322752
27	27	0.0163481	575173.77	4173365.64	5.59E-06	5.59	0.00326962
8	8	0.01613419	575477.00	4173333.77	5.52E-06	5.52	0.003226838
47	47	0.0159601	575739.24	4173683.79	5.46E-06	5.46	0.00319202
4	4	0.01573618	575419.10	4173345.82	5.38E-06	5.38	0.003147236
18	18	0.01551355	575294.84	4173366.25	5.31E-06	5.31	0.00310271
44	44	0.015506	575701.60	4173738.58	5.30E-06	5.30	0.0031012
7	7	0.01519492	575462.30	4173327.30	5.20E-06	5.20	0.003038984
26	26	0.01498903	575226.48	4173353.37	5.13E-06	5.13	0.002997806
48	48	0.01487618	575778.64	4173638.80	5.09E-06	5.09	0.002975236
9	9	0.01467074	575486.40	4173316.43	5.02E-06	5.02	0.002934148
5	5	0.01455491	575424.98	4173332.30	4.98E-06	4.98	0.002910982
55	55	0.01443871	575630.34	4173798.62	4.94E-06	4.94	0.002887742
19	19	0.01397007	575304.18	4173351.19	4.78E-06	4.78	0.002794014
11	11	0.01389754	575502.57	4173304.67	4.75E-06	4.75	0.002779508
6	6	0.01372571	575431.15	4173321.13	4.70E-06	4.70	0.002745142
50	50	0.01371249	575803.64	4173624.98	4.69E-06	4.69	0.002742498
49	49	0.01369926	575785.11	4173666.44	4.69E-06	4.69	0.002739852
56	56	0.01362355	575615.35	4173812.24	4.66E-06	4.66	0.00272471
45	45	0.01335408	575718.64	4173757.76	4.57E-06	4.57	0.002670816
43	43	0.01307364	575689.17	4173784.32	4.47E-06	4.47	0.002614728
12	12	0.01272138	575524.02	4173286.16	4.35E-06	4.35	0.002544276
20	20	0.01264636	575312.68	4173335.69	4.33E-06	4.33	0.002529272
57	57	0.01262632	575600.44	4173826.75	4.32E-06	4.32	0.002525264

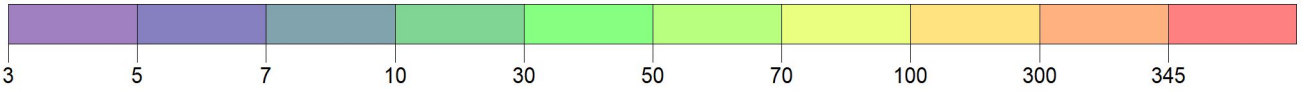
21	21	0.01171557	575318.62	4173322.95	4.01E-06	4.01	0.002343114
51	51	0.01154316	575695.93	4173803.99	3.95E-06	3.95	0.002308632
22	22	0.01058482	575327.97	4173304.90	3.62E-06	3.62	0.002116964
59	59	0.01046714	575663.02	4173834.11	3.58E-06	3.58	0.002093428
60	60	0.01015905	575655.19	4173840.85	3.48E-06	3.48	0.00203181
53	53	0.009952744	575719.43	4173819.23	3.40E-06	3.40	0.001990549
61	61	0.009642152	575642.04	4173851.96	3.30E-06	3.30	0.00192843
52	52	0.009537864	575710.18	4173832.48	3.26E-06	3.26	0.001907573
62	62	0.009051308	575680.05	4173851.41	3.10E-06	3.10	0.001810262
37	37	0.006721239	576034.63	4173323.70	2.30E-06	2.30	0.001344248
38	38	0.006613755	576029.74	4173306.92	2.26E-06	2.26	0.001322751
41	41	0.006310825	576030.61	4173281.83	2.16E-06	2.16	0.001262165
28	28	0.006167003	575908.36	4173217.56	2.11E-06	2.11	0.001233401
40	40	0.006026368	576041.00	4173266.35	2.06E-06	2.06	0.001205274
30	30	0.005968606	575933.63	4173215.58	2.04E-06	2.04	0.001193721
29	29	0.005881417	575908.36	4173199.87	2.01E-06	2.01	0.001176283
32	32	0.005853518	575950.06	4173214.67	2.00E-06	2.00	0.001170704
33	33	0.005775427	575965.77	4173215.58	1.98E-06	1.98	0.001155085
36	36	0.005610076	575909.62	4173181.82	1.92E-06	1.92	0.001122015
35	35	0.005417333	575909.44	4173167.19	1.85E-06	1.85	0.001083467
69	69	0.005298937	575563.13	4173954.27	1.81E-06	1.81	0.001059787
34	34	0.005255073	575948.07	4173172.61	1.80E-06	1.80	0.001051015
68	68	0.004972307	575551.30	4173966.55	1.70E-06	1.70	0.000994461
65	65	0.004806114	575535.33	4173974.23	1.64E-06	1.64	0.000961223
64	64	0.004401042	575521.21	4173991.12	1.51E-06	1.51	0.000880208
66	66	0.00398726	575527.50	4174008.63	1.36E-06	1.36	0.000797452
67	67	0.003704474	575539.94	4174021.83	1.27E-06	1.27	0.000740895
70	70	0.002151773	575203.96	4174126.14	7.36E-07	0.74	0.000430355
71	71	0.002046478	575214.80	4174136.34	7.00E-07	0.70	0.000409296
72	72	0.001969971	575199.50	4174148.24	6.74E-07	0.67	0.000393994
73	73	0.001871413	575189.30	4174163.12	6.40E-07	0.64	0.000374283

Graphical Representation of AERMOD Inputs and Dispersion Trend Calculated Using Unit Emissions



PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL ug/m^3

Max: 345 [ug/m^3] at (575375.90, 4173620.14)



COMMENTS:	SOURCES: **4**	COMPANY NAME:	
	RECEPTORS: **775**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:17,337 0 0.5 km	
	MAX: **345 ug/m^3**	DATE: **7/27/2022**	PROJECT NO.:

Control Pathway

Dispersion Options

Titles

C:\Lakes\AERMOD View\41940003 Washington Ave\41940003 Washington Ave

Dispersion Options

- ☐ Regulatory Default
- ☒ Non-Default Options

- ☒ Flat & Elevated Terrain
- ☐ No Stack-Tip Downwash (NOSTD)
- ☐ Run in Screening Mode
- ☐ Conversion of NOx to NO2 (OLM or PVMRM)
- ☐ No Checks for Non-Sequential Met Data
- ☐ Fast All Sources (FASTALL)
- ☐ Fast Area Sources (FASTAREA)
- ☐ Optimized Area Source Plume Depletion
- ☐ Gas Deposition

BETA Options:

- ☐ Capped and Horizontal Stack Releases
- ☐ Adjusted Friction Velocity (u*) in AERMET (ADJ_U*)
- ☐ Low Wind Options

- ☐ SCIM (Sampled Chronological Input Model)
- ☐ Ignore Urban Night / Daytime Transition (NOURBTRAN)

Dispersion Coefficient

Rural

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

PM2.5

Averaging Time Options

Hours: ☒ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 6 ☐ 8 ☐ 12 ☐ 24

- ☐ Month
- ☒ Period
- ☐ Annual

Exponential Decay

- ☐ Yes
- ☒ No

Terrain Height Options

- ☐ Flat
- ☒ Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

- ☒ Yes
- ☐ No

Default Height = 1.50 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: 41940003 Washington Ave.err

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: C:\01. Project Files\MET DATA\Oakland Airport Met Data\724930.SFC
Format Type: Default AERMET format

Profile Met Data

Filename: C:\01. Project Files\MET DATA\Oakland Airport Met Data\724930.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): 2.00 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2009			OAKLAND/WSO AP
Upper Air		2009			OAKLAND/WSO AP

Data Period

Data Period to Process

Start Date: 1/1/2009 Start Hour: 1 End Date: 1/2/2014 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: 41940003 Washington Ave.AD

Averaging Period	Source Group ID	High Value	File Name
1	ALL	1st	01H1GALL.PLT
1	1.Site	1st	01H1G001.PLT
1	2.Wash	1st	01H1G002.PLT
1	3.139th	1st	01H1G003.PLT
1	4.143rd	1st	01H1G004.PLT
Period	ALL	N/A	PE00GALL.PLT
Period	1.Site	N/A	PE00G001.PLT
Period	2.Wash	N/A	PE00G002.PLT
Period	3.139th	N/A	PE00G003.PLT
Period	4.143rd	N/A	PE00G004.PLT

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)

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	575452.01	4173362.57		12.00	
2	575460.24	4173353.17		12.08	
3	575463.18	4173341.12		11.96	
4	575419.10	4173345.82		11.66	
5	575424.98	4173332.30		11.96	
6	575431.15	4173321.13		12.21	
7	575462.30	4173327.30		11.86	
8	575477.00	4173333.77		11.82	
9	575486.40	4173316.43		11.80	
10	575452.01	4173362.57		12.00	
11	575502.57	4173304.67		11.88	
12	575524.02	4173286.16		12.05	
13	575288.26	4173408.30		11.60	
14	575278.06	4173403.63		11.52	
15	575260.44	4173400.23		11.43	
16	575260.44	4173385.79		11.70	
17	575269.14	4173376.87		11.61	
18	575294.84	4173366.25		11.49	
19	575304.18	4173351.19		11.60	
20	575312.68	4173335.69		11.55	
21	575318.62	4173322.95		11.47	
22	575327.97	4173304.90		11.35	
23	575221.79	4173370.34		10.97	
24	575205.72	4173380.81		11.21	
25	575188.03	4173381.35		11.08	
26	575226.48	4173353.37		10.92	
27	575173.77	4173365.64		10.94	
28	575908.36	4173217.56		13.98	
29	575908.36	4173199.87		13.88	
30	575933.63	4173215.58		14.00	

31	575452.01	4173362.57	12.00
32	575950.06	4173214.67	14.02
33	575965.77	4173215.58	14.14
34	575948.07	4173172.61	14.10
35	575909.44	4173167.19	13.75
36	575909.62	4173181.82	13.80
37	576034.63	4173323.70	14.36
38	576029.74	4173306.92	14.00
39	575452.01	4173362.57	12.00
40	576041.00	4173266.35	13.84
41	576030.61	4173281.83	13.84
42	575658.63	4173750.09	13.24
43	575689.17	4173784.32	13.25
44	575701.60	4173738.58	13.03
45	575718.64	4173757.76	13.36
46	575716.65	4173695.60	13.39
47	575739.24	4173683.79	13.14
48	575778.64	4173638.80	13.27
49	575785.11	4173666.44	13.27
50	575803.64	4173624.98	13.28
51	575695.93	4173803.99	13.25
52	575710.18	4173832.48	13.36
53	575719.43	4173819.23	13.41
54	575452.01	4173362.57	12.00
55	575630.34	4173798.62	12.98
56	575615.35	4173812.24	13.10
57	575600.44	4173826.75	13.30
58	575616.55	4173780.59	12.89
59	575663.02	4173834.11	13.27
60	575655.19	4173840.85	13.40
61	575642.04	4173851.96	13.63
62	575680.05	4173851.41	13.37
63	575452.01	4173362.57	12.00
64	575521.21	4173991.12	14.07
65	575535.33	4173974.23	14.17
66	575527.50	4174008.63	14.20
67	575539.94	4174021.83	14.36
68	575551.30	4173966.55	14.18

69	575563.13	4173954.27		13.99	
70	575203.96	4174126.14		14.50	
71	575214.80	4174136.34		14.58	
72	575199.50	4174148.24		14.83	
73	575189.30	4174163.12		14.91	

Plant Boundary Receptors

Results Summary

C:\Lakes\AERMOD View\41940003 Washington Ave\41940003 Washington Ave

PM2.5 - Concentration - Source Group: 1.SITE

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	1963.06998	ug/m^3	575415.90	4173600.14	12.53	1.50	12.53	2/13/2013, 22
PERIOD		300.20514	ug/m^3	575355.90	4173620.14	12.92	1.50	12.92	

PM2.5 - Concentration - Source Group: 2.WASH

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	1040.05544	ug/m^3	575395.90	4173660.14	12.55	1.50	12.55	1/8/2013, 21
PERIOD		91.26802	ug/m^3	575305.90	4173860.14	13.20	1.50	13.20	

PM2.5 - Concentration - Source Group: 3.139TH

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	3158.88484	ug/m^3	575405.90	4173910.14	14.14	1.50	14.14	2/15/2013, 24
PERIOD		211.30426	ug/m^3	575355.90	4173810.14	12.99	1.50	12.99	

PM2.5 - Concentration - Source Group: 4.143RD

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	1727.96965	ug/m^3	575605.90	4173760.14	12.99	1.50	12.99	2/15/2013, 24
PERIOD		209.09262	ug/m^3	575505.90	4173610.14	12.28	1.50	12.28	

Results Summary

C:\Lakes\AERMOD View\41940003 Washington Ave\41940003 Washington Ave

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	3697.22608	ug/m^3	575405.90	4173910.14	14.14	1.50	14.14	12/3/2011, 24
PERIOD		345.40097	ug/m^3	575375.90	4173620.14	12.72	1.50	12.72	

Source Pathway - Source Inputs

Polygon Area Sources

Source Type: AREA POLY

Source: SITE (Project Site)

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]
12.46	3.00	0.00007		6	575342.01	4173735.85
		0.00007			575414.13	4173601.60
		0.00007			575344.26	4173564.42
		0.00007			575257.67	4173658.25
		0.00007			575296.10	4173678.21
		0.00007			575282.62	4173705.16

Source Pathway - Source Inputs

Line Volume Sources

Source Type: LINE VOLUME
Source: 139TH (139th Street)

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]
10.00	1.00000		575330.23	4173813.28	12.89	2.83
			575347.85	4173822.14	12.93	2.83
			575360.47	4173833.14	13.18	2.83
			575371.12	4173848.66	13.22	2.83
			575381.40	4173863.81	13.63	2.83
			575388.08	4173875.90	13.90	2.83
			575394.93	4173892.14	14.13	2.83
			575430.03	4173975.45	13.83	2.83
			575439.23	4173992.41	14.08	2.83
			575452.40	4174011.35	14.35	2.83
			575456.73	4174016.40	14.34	2.83

Source Type: LINE VOLUME
Source: 143RD (143rd Street)

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]
10.00	1.00000		575456.56	4173579.02	12.34	2.83
			575471.67	4173590.31	12.12	2.83
			575622.88	4173758.50	13.02	2.83
			575708.05	4173853.67	13.36	2.83

Source Type: LINE VOLUME
Source: WASH (Washington Ave)

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]
11.00	1.00000		575565.08	4173347.05	12.08	2.83
			575207.58	4174013.06	12.58	2.83

Source Pathway - Source Inputs

AERMOD

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]
WASH	L0000001	575562.48	4173351.90	12.02	2.83	0.01449	11.00		5.12	1.32
	L0000002	575557.28	4173361.59	12.04	2.83	0.01449	11.00		5.12	1.32
	L0000003	575552.07	4173371.28	12.10	2.83	0.01449	11.00		5.12	1.32
	L0000004	575546.87	4173380.97	12.12	2.83	0.01449	11.00		5.12	1.32
	L0000005	575541.67	4173390.67	12.08	2.83	0.01449	11.00		5.12	1.32
	L0000006	575536.47	4173400.36	12.08	2.83	0.01449	11.00		5.12	1.32
	L0000007	575531.26	4173410.05	12.15	2.83	0.01449	11.00		5.12	1.32
	L0000008	575526.06	4173419.74	12.19	2.83	0.01449	11.00		5.12	1.32
	L0000009	575520.86	4173429.43	12.09	2.83	0.01449	11.00		5.12	1.32
	L0000010	575515.66	4173439.13	12.03	2.83	0.01449	11.00		5.12	1.32
	L0000011	575510.45	4173448.82	12.03	2.83	0.01449	11.00		5.12	1.32
	L0000012	575505.25	4173458.51	12.10	2.83	0.01449	11.00		5.12	1.32
	L0000013	575500.05	4173468.20	12.18	2.83	0.01449	11.00		5.12	1.32
	L0000014	575494.85	4173477.89	12.20	2.83	0.01449	11.00		5.12	1.32
	L0000015	575489.64	4173487.59	12.18	2.83	0.01449	11.00		5.12	1.32
	L0000016	575484.44	4173497.28	12.20	2.83	0.01449	11.00		5.12	1.32
	L0000017	575479.24	4173506.97	12.25	2.83	0.01449	11.00		5.12	1.32
	L0000018	575474.04	4173516.66	12.20	2.83	0.01449	11.00		5.12	1.32
	L0000019	575468.83	4173526.35	12.18	2.83	0.01449	11.00		5.12	1.32
	L0000020	575463.63	4173536.05	12.21	2.83	0.01449	11.00		5.12	1.32
	L0000021	575458.43	4173545.74	12.27	2.83	0.01449	11.00		5.12	1.32
	L0000022	575453.23	4173555.43	12.33	2.83	0.01449	11.00		5.12	1.32
	L0000023	575448.02	4173565.12	12.36	2.83	0.01449	11.00		5.12	1.32
	L0000024	575442.82	4173574.81	12.36	2.83	0.01449	11.00		5.12	1.32

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]
WASH	L0000025	575437.62	4173584.51	12.37	2.83	0.01449	11.00		5.12	1.32
	L0000026	575432.42	4173594.20	12.42	2.83	0.01449	11.00		5.12	1.32
	L0000027	575427.21	4173603.89	12.47	2.83	0.01449	11.00		5.12	1.32
	L0000028	575422.01	4173613.58	12.48	2.83	0.01449	11.00		5.12	1.32
	L0000029	575416.81	4173623.27	12.45	2.83	0.01449	11.00		5.12	1.32
	L0000030	575411.61	4173632.97	12.42	2.83	0.01449	11.00		5.12	1.32
	L0000031	575406.40	4173642.66	12.46	2.83	0.01449	11.00		5.12	1.32
	L0000032	575401.20	4173652.35	12.53	2.83	0.01449	11.00		5.12	1.32
	L0000033	575396.00	4173662.04	12.56	2.83	0.01449	11.00		5.12	1.32
	L0000034	575390.80	4173671.73	12.56	2.83	0.01449	11.00		5.12	1.32
	L0000035	575385.59	4173681.43	12.58	2.83	0.01449	11.00		5.12	1.32
	L0000036	575380.39	4173691.12	12.63	2.83	0.01449	11.00		5.12	1.32
	L0000037	575375.19	4173700.81	12.60	2.83	0.01449	11.00		5.12	1.32
	L0000038	575369.98	4173710.50	12.55	2.83	0.01449	11.00		5.12	1.32
	L0000039	575364.78	4173720.19	12.56	2.83	0.01449	11.00		5.12	1.32
	L0000040	575359.58	4173729.89	12.60	2.83	0.01449	11.00		5.12	1.32
	L0000041	575354.38	4173739.58	12.65	2.83	0.01449	11.00		5.12	1.32
	L0000042	575349.17	4173749.27	12.69	2.83	0.01449	11.00		5.12	1.32
	L0000043	575343.97	4173758.96	12.71	2.83	0.01449	11.00		5.12	1.32
	L0000044	575338.77	4173768.65	12.74	2.83	0.01449	11.00		5.12	1.32
	L0000045	575333.57	4173778.35	12.79	2.83	0.01449	11.00		5.12	1.32
	L0000046	575328.36	4173788.04	12.83	2.83	0.01449	11.00		5.12	1.32
	L0000047	575323.16	4173797.73	12.80	2.83	0.01449	11.00		5.12	1.32
	L0000048	575317.96	4173807.42	12.75	2.83	0.01449	11.00		5.12	1.32
	L0000049	575312.76	4173817.11	12.74	2.83	0.01449	11.00		5.12	1.32

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]
WASH	L0000050	575307.55	4173826.80	12.83	2.83	0.01449	11.00		5.12	1.32
	L0000051	575302.35	4173836.50	12.95	2.83	0.01449	11.00		5.12	1.32
	L0000052	575297.15	4173846.19	13.05	2.83	0.01449	11.00		5.12	1.32
	L0000053	575291.95	4173855.88	13.08	2.83	0.01449	11.00		5.12	1.32
	L0000054	575286.74	4173865.57	13.12	2.83	0.01449	11.00		5.12	1.32
	L0000055	575281.54	4173875.26	13.18	2.83	0.01449	11.00		5.12	1.32
	L0000056	575276.34	4173884.96	13.20	2.83	0.01449	11.00		5.12	1.32
	L0000057	575271.14	4173894.65	13.24	2.83	0.01449	11.00		5.12	1.32
	L0000058	575265.93	4173904.34	13.28	2.83	0.01449	11.00		5.12	1.32
	L0000059	575260.73	4173914.03	13.33	2.83	0.01449	11.00		5.12	1.32
	L0000060	575255.53	4173923.72	13.41	2.83	0.01449	11.00		5.12	1.32
	L0000061	575250.33	4173933.42	13.46	2.83	0.01449	11.00		5.12	1.32
	L0000062	575245.12	4173943.11	13.38	2.83	0.01449	11.00		5.12	1.32
	L0000063	575239.92	4173952.80	13.38	2.83	0.01449	11.00		5.12	1.32
	L0000064	575234.72	4173962.49	13.49	2.83	0.01449	11.00		5.12	1.32
	L0000065	575229.52	4173972.18	13.61	2.83	0.01449	11.00		5.12	1.32
	L0000066	575224.31	4173981.88	13.60	2.83	0.01449	11.00		5.12	1.32
	L0000067	575219.11	4173991.57	13.55	2.83	0.01449	11.00		5.12	1.32
	L0000068	575213.91	4174001.26	13.36	2.83	0.01449	11.00		5.12	1.32
	L0000069	575208.71	4174010.95	12.66	2.83	0.01449	11.00		5.12	1.32

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]
139TH	L0000139	575334.70	4173815.53	12.90	2.83	0.04167	10.00		4.65	1.32
	L0000140	575343.63	4173820.02	12.92	2.83	0.04167	10.00		4.65	1.32
	L0000141	575351.83	4173825.61	12.94	2.83	0.04167	10.00		4.65	1.32

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]
139TH	L0000142	575359.37	4173832.18	13.06	2.83	0.04167	10.00		4.65	1.32
	L0000143	575365.30	4173840.18	13.13	2.83	0.04167	10.00		4.65	1.32
	L0000144	575370.96	4173848.42	13.20	2.83	0.04167	10.00		4.65	1.32
	L0000145	575376.58	4173856.70	13.34	2.83	0.04167	10.00		4.65	1.32
	L0000146	575382.08	4173865.04	13.54	2.83	0.04167	10.00		4.65	1.32
	L0000147	575386.91	4173873.79	13.79	2.83	0.04167	10.00		4.65	1.32
	L0000148	575391.03	4173882.89	13.97	2.83	0.04167	10.00		4.65	1.32
	L0000149	575394.92	4173892.11	14.10	2.83	0.04167	10.00		4.65	1.32
	L0000150	575398.80	4173901.32	14.19	2.83	0.04167	10.00		4.65	1.32
	L0000151	575402.69	4173910.54	14.15	2.83	0.04167	10.00		4.65	1.32
	L0000152	575406.57	4173919.75	14.06	2.83	0.04167	10.00		4.65	1.32
	L0000153	575410.45	4173928.97	14.01	2.83	0.04167	10.00		4.65	1.32
	L0000154	575414.33	4173938.19	13.99	2.83	0.04167	10.00		4.65	1.32
	L0000155	575418.21	4173947.40	14.00	2.83	0.04167	10.00		4.65	1.32
	L0000156	575422.09	4173956.62	13.94	2.83	0.04167	10.00		4.65	1.32
	L0000157	575425.98	4173965.83	13.84	2.83	0.04167	10.00		4.65	1.32
	L0000158	575429.86	4173975.05	13.89	2.83	0.04167	10.00		4.65	1.32
	L0000159	575434.59	4173983.86	13.97	2.83	0.04167	10.00		4.65	1.32
	L0000160	575439.38	4173992.63	14.04	2.83	0.04167	10.00		4.65	1.32
	L0000161	575445.09	4174000.84	14.09	2.83	0.04167	10.00		4.65	1.32
	L0000162	575450.80	4174009.05	14.17	2.83	0.04167	10.00		4.65	1.32

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]
143RD	L0000187	575460.57	4173582.01	12.28	2.83	0.02703	10.00		4.65	1.32
	L0000188	575468.58	4173588.00	12.18	2.83	0.02703	10.00		4.65	1.32

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]
143RD	L0000189	575475.77	4173594.87	12.06	2.83	0.02703	10.00		4.65	1.32
	L0000190	575482.46	4173602.31	12.14	2.83	0.02703	10.00		4.65	1.32
	L0000191	575489.14	4173609.75	12.24	2.83	0.02703	10.00		4.65	1.32
	L0000192	575495.83	4173617.18	12.22	2.83	0.02703	10.00		4.65	1.32
	L0000193	575502.52	4173624.62	12.15	2.83	0.02703	10.00		4.65	1.32
	L0000194	575509.20	4173632.06	12.14	2.83	0.02703	10.00		4.65	1.32
	L0000195	575515.89	4173639.49	12.24	2.83	0.02703	10.00		4.65	1.32
	L0000196	575522.57	4173646.93	12.29	2.83	0.02703	10.00		4.65	1.32
	L0000197	575529.26	4173654.37	12.30	2.83	0.02703	10.00		4.65	1.32
	L0000198	575535.94	4173661.80	12.25	2.83	0.02703	10.00		4.65	1.32
	L0000199	575542.63	4173669.24	12.23	2.83	0.02703	10.00		4.65	1.32
	L0000200	575549.31	4173676.68	12.27	2.83	0.02703	10.00		4.65	1.32
	L0000201	575556.00	4173684.11	12.45	2.83	0.02703	10.00		4.65	1.32
	L0000202	575562.69	4173691.55	12.65	2.83	0.02703	10.00		4.65	1.32
	L0000203	575569.37	4173698.99	12.76	2.83	0.02703	10.00		4.65	1.32
	L0000204	575576.06	4173706.42	12.82	2.83	0.02703	10.00		4.65	1.32
	L0000205	575582.74	4173713.86	13.05	2.83	0.02703	10.00		4.65	1.32
	L0000206	575589.43	4173721.30	13.49	2.83	0.02703	10.00		4.65	1.32
	L0000207	575596.11	4173728.73	13.78	2.83	0.02703	10.00		4.65	1.32
	L0000208	575602.80	4173736.17	13.46	2.83	0.02703	10.00		4.65	1.32
	L0000209	575609.48	4173743.61	13.19	2.83	0.02703	10.00		4.65	1.32
	L0000210	575616.17	4173751.04	13.04	2.83	0.02703	10.00		4.65	1.32
	L0000211	575622.85	4173758.48	13.00	2.83	0.02703	10.00		4.65	1.32
	L0000212	575629.52	4173765.93	13.00	2.83	0.02703	10.00		4.65	1.32
	L0000213	575636.19	4173773.38	12.97	2.83	0.02703	10.00		4.65	1.32

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]
143RD	L0000214	575642.86	4173780.84	12.89	2.83	0.02703	10.00		4.65	1.32
	L0000215	575649.53	4173788.29	12.88	2.83	0.02703	10.00		4.65	1.32
	L0000216	575656.20	4173795.74	12.99	2.83	0.02703	10.00		4.65	1.32
	L0000217	575662.87	4173803.19	13.06	2.83	0.02703	10.00		4.65	1.32
	L0000218	575669.54	4173810.64	13.09	2.83	0.02703	10.00		4.65	1.32
	L0000219	575676.21	4173818.09	13.14	2.83	0.02703	10.00		4.65	1.32
	L0000220	575682.88	4173825.54	13.21	2.83	0.02703	10.00		4.65	1.32
	L0000221	575689.55	4173833.00	13.28	2.83	0.02703	10.00		4.65	1.32
	L0000222	575696.21	4173840.45	13.34	2.83	0.02703	10.00		4.65	1.32
	L0000223	575702.88	4173847.90	13.37	2.83	0.02703	10.00		4.65	1.32

*HARP - HRACalc v21081 7/22/2022 10:14:24 AM - Cancer Risk - Input File: C:\01. Project Files\41940003 Washington Ave\HARP2\41940003 WASHINGTON AVE\hra\Washington Ave_HRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_RISK	EGG_RISK	CONC
1	ALL		575452.01	4173362.57	6.46E-06	2YrCancerHighEnd_Inh	6.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.018894
2	ALL		575460.24	4173353.17	6.13E-06	2YrCancerHighEnd_Inh	6.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.017912
3	ALL		575463.18	4173341.12	5.68E-06	2YrCancerHighEnd_Inh	5.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.016614
4	ALL		575419.10	4173345.82	5.38E-06	2YrCancerHighEnd_Inh	5.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.015736
5	ALL		575424.98	4173332.30	4.98E-06	2YrCancerHighEnd_Inh	4.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.014555
6	ALL		575431.15	4173321.13	4.70E-06	2YrCancerHighEnd_Inh	4.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.013726
7	ALL		575462.30	4173327.30	5.20E-06	2YrCancerHighEnd_Inh	5.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.015195
8	ALL		575477.00	4173333.77	5.52E-06	2YrCancerHighEnd_Inh	5.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.016134
9	ALL		575486.40	4173316.43	5.02E-06	2YrCancerHighEnd_Inh	5.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.014671
10	ALL		575452.01	4173362.57	6.46E-06	2YrCancerHighEnd_Inh	6.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.018894
11	ALL		575502.57	4173304.67	4.75E-06	2YrCancerHighEnd_Inh	4.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.013898
12	ALL		575524.02	4173286.16	4.35E-06	2YrCancerHighEnd_Inh	4.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.012721
13	ALL		575288.26	4173408.30	7.29E-06	2YrCancerHighEnd_Inh	7.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.021301
14	ALL		575278.06	4173403.63	7.07E-06	2YrCancerHighEnd_Inh	7.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.020661
15	ALL		575260.44	4173400.23	6.97E-06	2YrCancerHighEnd_Inh	6.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.020368
16	ALL		575260.44	4173385.79	6.25E-06	2YrCancerHighEnd_Inh	6.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.018263
17	ALL		575269.14	4173376.87	5.82E-06	2YrCancerHighEnd_Inh	5.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.017017
18	ALL		575294.84	4173366.25	5.31E-06	2YrCancerHighEnd_Inh	5.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.015514
19	ALL		575304.18	4173351.19	4.78E-06	2YrCancerHighEnd_Inh	4.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.01397
20	ALL		575312.68	4173335.69	4.33E-06	2YrCancerHighEnd_Inh	4.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.012646
21	ALL		575318.62	4173322.95	4.01E-06	2YrCancerHighEnd_Inh	4.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.011716
22	ALL		575327.97	4173304.90	3.62E-06	2YrCancerHighEnd_Inh	3.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.010585
23	ALL		575221.79	4173370.34	5.74E-06	2YrCancerHighEnd_Inh	5.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.016783
24	ALL		575205.72	4173380.81	6.18E-06	2YrCancerHighEnd_Inh	6.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.018079
25	ALL		575188.03	4173381.35	6.20E-06	2YrCancerHighEnd_Inh	6.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.018119
26	ALL		575226.48	4173353.37	5.13E-06	2YrCancerHighEnd_Inh	5.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.014989
27	ALL		575173.77	4173365.64	5.59E-06	2YrCancerHighEnd_Inh	5.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.016348
28	ALL		575908.36	4173217.56	2.11E-06	2YrCancerHighEnd_Inh	2.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.006167
29	ALL		575908.36	4173199.87	2.01E-06	2YrCancerHighEnd_Inh	2.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005881
30	ALL		575933.63	4173215.58	2.04E-06	2YrCancerHighEnd_Inh	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005969
31	ALL		575452.01	4173362.57	6.46E-06	2YrCancerHighEnd_Inh	6.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.018894
32	ALL		575950.06	4173214.67	2.00E-06	2YrCancerHighEnd_Inh	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005854
33	ALL		575965.77	4173215.58	1.98E-06	2YrCancerHighEnd_Inh	1.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005775
34	ALL		575948.07	4173172.61	1.80E-06	2YrCancerHighEnd_Inh	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005255
35	ALL		575909.44	4173167.19	1.85E-06	2YrCancerHighEnd_Inh	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005417
36	ALL		575909.62	4173181.82	1.92E-06	2YrCancerHighEnd_Inh	1.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00561
37	ALL		576034.63	4173323.70	2.30E-06	2YrCancerHighEnd_Inh	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.006721
38	ALL		576029.74	4173306.92	2.26E-06	2YrCancerHighEnd_Inh	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.006614
39	ALL		575452.01	4173362.57	6.46E-06	2YrCancerHighEnd_Inh	6.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.018894
40	ALL		576041.00	4173266.35	2.06E-06	2YrCancerHighEnd_Inh	2.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.006026
41	ALL		576030.61	4173281.83	2.16E-06	2YrCancerHighEnd_Inh	2.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.006311
42	ALL		575658.63	4173750.09	6.00E-06	2YrCancerHighEnd_Inh	6.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.01755
43	ALL		575689.17	4173784.32	4.47E-06	2YrCancerHighEnd_Inh	4.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.013074
44	ALL		575701.60	4173738.58	5.30E-06	2YrCancerHighEnd_Inh	5.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.015506
45	ALL		575718.64	4173757.76	4.57E-06	2YrCancerHighEnd_Inh	4.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.013354
46	ALL		575716.65	4173695.60	5.83E-06	2YrCancerHighEnd_Inh	5.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.017033
47	ALL		575739.24	4173683.79	5.46E-06	2YrCancerHighEnd_Inh	5.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.01596
48	ALL		575778.64	4173638.80	5.09E-06	2YrCancerHighEnd_Inh	5.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.014876
49	ALL		575785.11	4173666.44	4.69E-06	2YrCancerHighEnd_Inh	4.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.013699
50	ALL		575803.64	4173624.98	4.69E-06	2YrCancerHighEnd_Inh	4.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.013712
51	ALL		575695.93	4173803.99	3.95E-06	2YrCancerHighEnd_Inh	3.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.011543
52	ALL		575710.18	4173832.48	3.26E-06	2YrCancerHighEnd_Inh	3.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.009538
53	ALL		575719.43	4173819.23	3.40E-06	2YrCancerHighEnd_Inh	3.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.009953
54	ALL		575452.01	4173362.57	6.46E-06	2YrCancerHighEnd_Inh	6.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.018894
55	ALL		575630.34	4173798.62	4.94E-06	2YrCancerHighEnd_Inh	4.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.014439
56	ALL		575615.35	4173812.24	4.66E-06	2YrCancerHighEnd_Inh	4.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.013624
57	ALL		575600.44	4173826.75	4.32E-06	2YrCancerHighEnd_Inh	4.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.012626
58	ALL		575616.55	4173780.59	5.86E-06	2YrCancerHighEnd_Inh	5.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.017123
59	ALL		575663.02	4173834.11	3.58E-06	2YrCancerHighEnd_Inh	3.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.010467
60	ALL		575655.19	4173840.85	3.48E-06	2YrCancerHighEnd_Inh	3.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.010159
61	ALL		575642.04	4173851.96	3.30E-06	2YrCancerHighEnd_Inh	3.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.009642
62	ALL		575680.05	4173851.41	3.10E-06	2YrCancerHighEnd_Inh	3.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.009051
63	ALL		575452.01	4173362.57	6.46E-06	2YrCancerHighEnd_Inh	6.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.018894
64	ALL		575521.21	4173991.12	1.51E-06	2YrCancerHighEnd_Inh	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.004401

65	ALL	575535.33	4173974.23	1.64E-06	2YrCancerHighEnd_Inh	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.004806
66	ALL	575527.50	4174008.63	1.36E-06	2YrCancerHighEnd_Inh	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.003987
67	ALL	575539.94	4174021.83	1.27E-06	2YrCancerHighEnd_Inh	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.003704
68	ALL	575551.30	4173966.55	1.70E-06	2YrCancerHighEnd_Inh	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.004972
69	ALL	575563.13	4173954.27	1.81E-06	2YrCancerHighEnd_Inh	1.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005299
70	ALL	575203.96	4174126.14	7.36E-07	2YrCancerHighEnd_Inh	7.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002152
71	ALL	575214.80	4174136.34	7.00E-07	2YrCancerHighEnd_Inh	7.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002046
72	ALL	575199.50	4174148.24	6.74E-07	2YrCancerHighEnd_Inh	6.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00197
73	ALL	575189.30	4174163.12	6.40E-07	2YrCancerHighEnd_Inh	6.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001871
74	ALL	575255.90	4173560.14	3.22E-05	2YrCancerHighEnd_Inh	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.094198
75	ALL	575275.90	4173560.14	3.87E-05	2YrCancerHighEnd_Inh	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.113187
76	ALL	575295.90	4173560.14	4.74E-05	2YrCancerHighEnd_Inh	4.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.13865
77	ALL	575315.90	4173560.14	5.98E-05	2YrCancerHighEnd_Inh	5.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.174894
78	ALL	575335.90	4173560.14	7.68E-05	2YrCancerHighEnd_Inh	7.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.224497
79	ALL	575355.90	4173560.14	9.44E-05	2YrCancerHighEnd_Inh	9.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.275863
80	ALL	575375.90	4173560.14	9.04E-05	2YrCancerHighEnd_Inh	9.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.264359
81	ALL	575395.90	4173560.14	7.92E-05	2YrCancerHighEnd_Inh	7.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.231456
82	ALL	575415.90	4173560.14	6.74E-05	2YrCancerHighEnd_Inh	6.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.196996
83	ALL	575255.90	4173580.14	3.84E-05	2YrCancerHighEnd_Inh	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.112224
84	ALL	575275.90	4173580.14	4.87E-05	2YrCancerHighEnd_Inh	4.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.142369
85	ALL	575295.90	4173580.14	6.44E-05	2YrCancerHighEnd_Inh	6.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.188274
86	ALL	575315.90	4173580.14	9.11E-05	2YrCancerHighEnd_Inh	9.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.266327
87	ALL	575335.90	4173580.14	1.44E-04	2YrCancerHighEnd_Inh	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.420983
88	ALL	575355.90	4173580.14	1.93E-04	2YrCancerHighEnd_Inh	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.564794
89	ALL	575375.90	4173580.14	1.87E-04	2YrCancerHighEnd_Inh	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.545772
90	ALL	575395.90	4173580.14	1.41E-04	2YrCancerHighEnd_Inh	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.412957
91	ALL	575415.90	4173580.14	1.05E-04	2YrCancerHighEnd_Inh	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.305729
92	ALL	575255.90	4173600.14	4.55E-05	2YrCancerHighEnd_Inh	4.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.133129
93	ALL	575275.90	4173600.14	6.20E-05	2YrCancerHighEnd_Inh	6.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.181148
94	ALL	575295.90	4173600.14	9.00E-05	2YrCancerHighEnd_Inh	9.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.263202
95	ALL	575315.90	4173600.14	1.45E-04	2YrCancerHighEnd_Inh	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.422688
96	ALL	575335.90	4173600.14	2.23E-04	2YrCancerHighEnd_Inh	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.6512
97	ALL	575355.90	4173600.14	2.46E-04	2YrCancerHighEnd_Inh	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.718759
98	ALL	575375.90	4173600.14	2.52E-04	2YrCancerHighEnd_Inh	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.736171
99	ALL	575395.90	4173600.14	2.22E-04	2YrCancerHighEnd_Inh	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.649314
100	ALL	575415.90	4173600.14	1.64E-04	2YrCancerHighEnd_Inh	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.479883
101	ALL	575255.90	4173620.14	5.37E-05	2YrCancerHighEnd_Inh	5.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.157094
102	ALL	575275.90	4173620.14	8.10E-05	2YrCancerHighEnd_Inh	8.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.236764
103	ALL	575295.90	4173620.14	1.33E-04	2YrCancerHighEnd_Inh	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.389814
104	ALL	575315.90	4173620.14	2.11E-04	2YrCancerHighEnd_Inh	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.617829
105	ALL	575335.90	4173620.14	2.52E-04	2YrCancerHighEnd_Inh	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.737869
106	ALL	575355.90	4173620.14	2.65E-04	2YrCancerHighEnd_Inh	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.77505
107	ALL	575375.90	4173620.14	2.56E-04	2YrCancerHighEnd_Inh	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.748538
108	ALL	575395.90	4173620.14	2.24E-04	2YrCancerHighEnd_Inh	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.653965
109	ALL	575415.90	4173620.14	1.52E-04	2YrCancerHighEnd_Inh	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.444301
110	ALL	575255.90	4173640.14	6.15E-05	2YrCancerHighEnd_Inh	6.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.179802
111	ALL	575275.90	4173640.14	1.08E-04	2YrCancerHighEnd_Inh	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.315809
112	ALL	575295.90	4173640.14	1.88E-04	2YrCancerHighEnd_Inh	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.549375
113	ALL	575315.90	4173640.14	2.36E-04	2YrCancerHighEnd_Inh	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.690919
114	ALL	575335.90	4173640.14	2.59E-04	2YrCancerHighEnd_Inh	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.755792
115	ALL	575355.90	4173640.14	2.63E-04	2YrCancerHighEnd_Inh	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.767703
116	ALL	575375.90	4173640.14	2.44E-04	2YrCancerHighEnd_Inh	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.711982
117	ALL	575395.90	4173640.14	1.97E-04	2YrCancerHighEnd_Inh	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.576915
118	ALL	575415.90	4173640.14	1.22E-04	2YrCancerHighEnd_Inh	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.355589
119	ALL	575255.90	4173660.14	5.75E-05	2YrCancerHighEnd_Inh	5.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.168193
120	ALL	575275.90	4173660.14	1.24E-04	2YrCancerHighEnd_Inh	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.363559
121	ALL	575295.90	4173660.14	1.88E-04	2YrCancerHighEnd_Inh	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.548392
122	ALL	575315.90	4173660.14	2.27E-04	2YrCancerHighEnd_Inh	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.664401
123	ALL	575335.90	4173660.14	2.47E-04	2YrCancerHighEnd_Inh	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.723157
124	ALL	575355.90	4173660.14	2.44E-04	2YrCancerHighEnd_Inh	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.714202
125	ALL	575375.90	4173660.14	2.16E-04	2YrCancerHighEnd_Inh	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.632152
126	ALL	575395.90	4173660.14	1.48E-04	2YrCancerHighEnd_Inh	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.432018
127	ALL	575415.90	4173660.14	9.54E-05	2YrCancerHighEnd_Inh	9.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.278953
128	ALL	575255.90	4173680.14	4.32E-05	2YrCancerHighEnd_Inh	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.126135
129	ALL	575275.90	4173680.14	7.15E-05	2YrCancerHighEnd_Inh	7.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.209103
130	ALL	575295.90	4173680.14	1.22E-04	2YrCancerHighEnd_Inh	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.355293

131	ALL	575315.90	4173680.14	1.91E-04	2YrCancerHighEnd_Inh	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.558307
132	ALL	575335.90	4173680.14	2.16E-04	2YrCancerHighEnd_Inh	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.63255
133	ALL	575355.90	4173680.14	2.13E-04	2YrCancerHighEnd_Inh	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.623979
134	ALL	575375.90	4173680.14	1.76E-04	2YrCancerHighEnd_Inh	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.515303
135	ALL	575395.90	4173680.14	1.07E-04	2YrCancerHighEnd_Inh	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.313037
136	ALL	575415.90	4173680.14	7.29E-05	2YrCancerHighEnd_Inh	7.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.213089
137	ALL	575255.90	4173700.14	3.16E-05	2YrCancerHighEnd_Inh	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.092325
138	ALL	575275.90	4173700.14	5.24E-05	2YrCancerHighEnd_Inh	5.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.153054
139	ALL	575295.90	4173700.14	1.02E-04	2YrCancerHighEnd_Inh	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.299564
140	ALL	575315.90	4173700.14	1.57E-04	2YrCancerHighEnd_Inh	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.460069
141	ALL	575335.90	4173700.14	1.80E-04	2YrCancerHighEnd_Inh	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.52703
142	ALL	575355.90	4173700.14	1.72E-04	2YrCancerHighEnd_Inh	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.503658
143	ALL	575375.90	4173700.14	1.16E-04	2YrCancerHighEnd_Inh	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.339002
144	ALL	575395.90	4173700.14	7.46E-05	2YrCancerHighEnd_Inh	7.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.218134
145	ALL	575415.90	4173700.14	5.34E-05	2YrCancerHighEnd_Inh	5.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.156184
146	ALL	575255.90	4173720.14	2.31E-05	2YrCancerHighEnd_Inh	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.067604
147	ALL	575275.90	4173720.14	3.31E-05	2YrCancerHighEnd_Inh	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.096735
148	ALL	575295.90	4173720.14	5.14E-05	2YrCancerHighEnd_Inh	5.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.150132
149	ALL	575315.90	4173720.14	8.17E-05	2YrCancerHighEnd_Inh	8.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.238722
150	ALL	575335.90	4173720.14	1.19E-04	2YrCancerHighEnd_Inh	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.346634
151	ALL	575355.90	4173720.14	1.12E-04	2YrCancerHighEnd_Inh	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.327849
152	ALL	575375.90	4173720.14	6.86E-05	2YrCancerHighEnd_Inh	6.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.200419
153	ALL	575395.90	4173720.14	4.85E-05	2YrCancerHighEnd_Inh	4.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.141862
154	ALL	575415.90	4173720.14	3.73E-05	2YrCancerHighEnd_Inh	3.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.108921
155	ALL	575255.90	4173740.14	1.68E-05	2YrCancerHighEnd_Inh	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.049213
156	ALL	575275.90	4173740.14	2.11E-05	2YrCancerHighEnd_Inh	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.061575
157	ALL	575295.90	4173740.14	2.67E-05	2YrCancerHighEnd_Inh	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.078034
158	ALL	575315.90	4173740.14	3.40E-05	2YrCancerHighEnd_Inh	3.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.099348
159	ALL	575335.90	4173740.14	4.12E-05	2YrCancerHighEnd_Inh	4.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.12051
160	ALL	575355.90	4173740.14	4.23E-05	2YrCancerHighEnd_Inh	4.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.123757
161	ALL	575375.90	4173740.14	3.57E-05	2YrCancerHighEnd_Inh	3.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.104479
162	ALL	575395.90	4173740.14	2.97E-05	2YrCancerHighEnd_Inh	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.086852
163	ALL	575415.90	4173740.14	2.50E-05	2YrCancerHighEnd_Inh	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.073187
164	ALL	575055.90	4173360.14	4.77E-06	2YrCancerHighEnd_Inh	4.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.013954
165	ALL	575105.90	4173360.14	5.16E-06	2YrCancerHighEnd_Inh	5.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.015075
166	ALL	575155.90	4173360.14	5.38E-06	2YrCancerHighEnd_Inh	5.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.015722
167	ALL	575205.90	4173360.14	5.40E-06	2YrCancerHighEnd_Inh	5.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.015775
168	ALL	575255.90	4173360.14	5.25E-06	2YrCancerHighEnd_Inh	5.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.015344
169	ALL	575305.90	4173360.14	5.06E-06	2YrCancerHighEnd_Inh	5.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.014805
170	ALL	575355.90	4173360.14	5.18E-06	2YrCancerHighEnd_Inh	5.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.01513
171	ALL	575405.90	4173360.14	5.77E-06	2YrCancerHighEnd_Inh	5.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.016864
172	ALL	575455.90	4173360.14	6.39E-06	2YrCancerHighEnd_Inh	6.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.018677
173	ALL	575505.90	4173360.14	6.54E-06	2YrCancerHighEnd_Inh	6.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.01911
174	ALL	575555.90	4173360.14	6.16E-06	2YrCancerHighEnd_Inh	6.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.018021
175	ALL	575605.90	4173360.14	5.57E-06	2YrCancerHighEnd_Inh	5.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.01627
176	ALL	575055.90	4173410.14	5.69E-06	2YrCancerHighEnd_Inh	5.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.016635
177	ALL	575105.90	4173410.14	6.56E-06	2YrCancerHighEnd_Inh	6.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.019179
178	ALL	575155.90	4173410.14	7.25E-06	2YrCancerHighEnd_Inh	7.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.021195
179	ALL	575205.90	4173410.14	7.60E-06	2YrCancerHighEnd_Inh	7.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.022216
180	ALL	575255.90	4173410.14	7.56E-06	2YrCancerHighEnd_Inh	7.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.022088
181	ALL	575305.90	4173410.14	7.33E-06	2YrCancerHighEnd_Inh	7.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.021428
182	ALL	575355.90	4173410.14	7.59E-06	2YrCancerHighEnd_Inh	7.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.022177
183	ALL	575405.90	4173410.14	8.60E-06	2YrCancerHighEnd_Inh	8.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.025128
184	ALL	575455.90	4173410.14	9.28E-06	2YrCancerHighEnd_Inh	9.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.027121
185	ALL	575505.90	4173410.14	8.96E-06	2YrCancerHighEnd_Inh	8.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.026179
186	ALL	575555.90	4173410.14	8.03E-06	2YrCancerHighEnd_Inh	8.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.023478
187	ALL	575605.90	4173410.14	7.06E-06	2YrCancerHighEnd_Inh	7.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.020631
188	ALL	575055.90	4173460.14	6.35E-06	2YrCancerHighEnd_Inh	6.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.018556
189	ALL	575105.90	4173460.14	7.96E-06	2YrCancerHighEnd_Inh	7.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.023268
190	ALL	575155.90	4173460.14	9.65E-06	2YrCancerHighEnd_Inh	9.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.028222
191	ALL	575205.90	4173460.14	1.11E-05	2YrCancerHighEnd_Inh	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.032472
192	ALL	575255.90	4173460.14	1.18E-05	2YrCancerHighEnd_Inh	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.034522
193	ALL	575305.90	4173460.14	1.18E-05	2YrCancerHighEnd_Inh	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.034404
194	ALL	575355.90	4173460.14	1.24E-05	2YrCancerHighEnd_Inh	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.036326
195	ALL	575405.90	4173460.14	1.41E-05	2YrCancerHighEnd_Inh	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.041201
196	ALL	575455.90	4173460.14	1.43E-05	2YrCancerHighEnd_Inh	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.041788

197	ALL	575505.90	4173460.14	1.27E-05	2YrCancerHighEnd_Inh	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.037266
198	ALL	575555.90	4173460.14	1.09E-05	2YrCancerHighEnd_Inh	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.031821
199	ALL	575605.90	4173460.14	9.30E-06	2YrCancerHighEnd_Inh	9.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.027173
200	ALL	575055.90	4173510.14	6.45E-06	2YrCancerHighEnd_Inh	6.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.018864
201	ALL	575105.90	4173510.14	8.84E-06	2YrCancerHighEnd_Inh	8.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.025848
202	ALL	575155.90	4173510.14	1.20E-05	2YrCancerHighEnd_Inh	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.035152
203	ALL	575205.90	4173510.14	1.59E-05	2YrCancerHighEnd_Inh	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.046428
204	ALL	575255.90	4173510.14	1.98E-05	2YrCancerHighEnd_Inh	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.058001
205	ALL	575305.90	4173510.14	2.25E-05	2YrCancerHighEnd_Inh	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.065847
206	ALL	575355.90	4173510.14	2.50E-05	2YrCancerHighEnd_Inh	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.073089
207	ALL	575405.90	4173510.14	2.72E-05	2YrCancerHighEnd_Inh	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.07965
208	ALL	575455.90	4173510.14	2.43E-05	2YrCancerHighEnd_Inh	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.071175
209	ALL	575505.90	4173510.14	1.94E-05	2YrCancerHighEnd_Inh	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.056675
210	ALL	575555.90	4173510.14	1.52E-05	2YrCancerHighEnd_Inh	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.044473
211	ALL	575605.90	4173510.14	1.20E-05	2YrCancerHighEnd_Inh	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.035065
212	ALL	575055.90	4173560.14	5.93E-06	2YrCancerHighEnd_Inh	5.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.017335
213	ALL	575105.90	4173560.14	8.66E-06	2YrCancerHighEnd_Inh	8.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.025312
214	ALL	575155.90	4173560.14	1.33E-05	2YrCancerHighEnd_Inh	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.038786
215	ALL	575205.90	4173560.14	2.07E-05	2YrCancerHighEnd_Inh	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.060653
216	ALL	575455.90	4173560.14	4.57E-05	2YrCancerHighEnd_Inh	4.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.133687
217	ALL	575505.90	4173560.14	2.88E-05	2YrCancerHighEnd_Inh	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.084308
218	ALL	575555.90	4173560.14	1.95E-05	2YrCancerHighEnd_Inh	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.056916
219	ALL	575605.90	4173560.14	1.39E-05	2YrCancerHighEnd_Inh	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.040515
220	ALL	575055.90	4173610.14	5.07E-06	2YrCancerHighEnd_Inh	5.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.014835
221	ALL	575105.90	4173610.14	7.49E-06	2YrCancerHighEnd_Inh	7.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.021897
222	ALL	575155.90	4173610.14	1.22E-05	2YrCancerHighEnd_Inh	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.035755
223	ALL	575205.90	4173610.14	2.30E-05	2YrCancerHighEnd_Inh	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.067229
224	ALL	575455.90	4173610.14	6.63E-05	2YrCancerHighEnd_Inh	6.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.193813
225	ALL	575505.90	4173610.14	3.36E-05	2YrCancerHighEnd_Inh	3.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.098145
226	ALL	575555.90	4173610.14	2.05E-05	2YrCancerHighEnd_Inh	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.060011
227	ALL	575605.90	4173610.14	1.39E-05	2YrCancerHighEnd_Inh	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.040541
228	ALL	575055.90	4173660.14	4.31E-06	2YrCancerHighEnd_Inh	4.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.012609
229	ALL	575105.90	4173660.14	6.22E-06	2YrCancerHighEnd_Inh	6.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.018175
230	ALL	575155.90	4173660.14	9.93E-06	2YrCancerHighEnd_Inh	9.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.029016
231	ALL	575205.90	4173660.14	1.90E-05	2YrCancerHighEnd_Inh	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.055604
232	ALL	575455.90	4173660.14	5.02E-05	2YrCancerHighEnd_Inh	5.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.146843
233	ALL	575505.90	4173660.14	2.80E-05	2YrCancerHighEnd_Inh	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.081737
234	ALL	575555.90	4173660.14	1.78E-05	2YrCancerHighEnd_Inh	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.051919
235	ALL	575605.90	4173660.14	1.22E-05	2YrCancerHighEnd_Inh	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.035673
236	ALL	575055.90	4173710.14	3.80E-06	2YrCancerHighEnd_Inh	3.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.011118
237	ALL	575105.90	4173710.14	5.31E-06	2YrCancerHighEnd_Inh	5.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.015511
238	ALL	575155.90	4173710.14	7.96E-06	2YrCancerHighEnd_Inh	7.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.023262
239	ALL	575205.90	4173710.14	1.32E-05	2YrCancerHighEnd_Inh	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.038716
240	ALL	575455.90	4173710.14	2.85E-05	2YrCancerHighEnd_Inh	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.083235
241	ALL	575505.90	4173710.14	1.86E-05	2YrCancerHighEnd_Inh	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.054238
242	ALL	575555.90	4173710.14	1.31E-05	2YrCancerHighEnd_Inh	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.038224
243	ALL	575605.90	4173710.14	9.65E-06	2YrCancerHighEnd_Inh	9.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.028217
244	ALL	575055.90	4173760.14	3.39E-06	2YrCancerHighEnd_Inh	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.009915
245	ALL	575105.90	4173760.14	4.50E-06	2YrCancerHighEnd_Inh	4.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.013144
246	ALL	575155.90	4173760.14	6.11E-06	2YrCancerHighEnd_Inh	6.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.017868
247	ALL	575205.90	4173760.14	8.60E-06	2YrCancerHighEnd_Inh	8.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.025152
248	ALL	575255.90	4173760.14	1.23E-05	2YrCancerHighEnd_Inh	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.036047
249	ALL	575305.90	4173760.14	1.71E-05	2YrCancerHighEnd_Inh	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.0501
250	ALL	575355.90	4173760.14	2.00E-05	2YrCancerHighEnd_Inh	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.058365
251	ALL	575405.90	4173760.14	1.75E-05	2YrCancerHighEnd_Inh	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.05128
252	ALL	575455.90	4173760.14	1.38E-05	2YrCancerHighEnd_Inh	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.040422
253	ALL	575505.90	4173760.14	1.09E-05	2YrCancerHighEnd_Inh	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.031816
254	ALL	575555.90	4173760.14	8.66E-06	2YrCancerHighEnd_Inh	8.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.025329
255	ALL	575605.90	4173760.14	7.04E-06	2YrCancerHighEnd_Inh	7.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.020586
256	ALL	575055.90	4173810.14	2.91E-06	2YrCancerHighEnd_Inh	2.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.008511
257	ALL	575105.90	4173810.14	3.59E-06	2YrCancerHighEnd_Inh	3.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.010481
258	ALL	575155.90	4173810.14	4.40E-06	2YrCancerHighEnd_Inh	4.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.012854
259	ALL	575205.90	4173810.14	5.33E-06	2YrCancerHighEnd_Inh	5.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.015592
260	ALL	575255.90	4173810.14	6.22E-06	2YrCancerHighEnd_Inh	6.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.018187
261	ALL	575305.90	4173810.14	6.90E-06	2YrCancerHighEnd_Inh	6.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.020158
262	ALL	575355.90	4173810.14	7.43E-06	2YrCancerHighEnd_Inh	7.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.021709

263	ALL	575405.90	4173810.14	7.34E-06	2YrCancerHighEnd_Inh	7.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.021452
264	ALL	575455.90	4173810.14	6.88E-06	2YrCancerHighEnd_Inh	6.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.020103
265	ALL	575505.90	4173810.14	6.21E-06	2YrCancerHighEnd_Inh	6.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.018163
266	ALL	575555.90	4173810.14	5.52E-06	2YrCancerHighEnd_Inh	5.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.016141
267	ALL	575605.90	4173810.14	4.85E-06	2YrCancerHighEnd_Inh	4.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.014191
268	ALL	575055.90	4173860.14	2.37E-06	2YrCancerHighEnd_Inh	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.006916
269	ALL	575105.90	4173860.14	2.71E-06	2YrCancerHighEnd_Inh	2.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.007931
270	ALL	575155.90	4173860.14	3.08E-06	2YrCancerHighEnd_Inh	3.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.009002
271	ALL	575205.90	4173860.14	3.43E-06	2YrCancerHighEnd_Inh	3.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.010039
272	ALL	575255.90	4173860.14	3.67E-06	2YrCancerHighEnd_Inh	3.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.01074
273	ALL	575305.90	4173860.14	3.85E-06	2YrCancerHighEnd_Inh	3.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.011252
274	ALL	575355.90	4173860.14	4.07E-06	2YrCancerHighEnd_Inh	4.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.011895
275	ALL	575405.90	4173860.14	4.12E-06	2YrCancerHighEnd_Inh	4.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.012054
276	ALL	575455.90	4173860.14	3.97E-06	2YrCancerHighEnd_Inh	3.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.011615
277	ALL	575505.90	4173860.14	3.78E-06	2YrCancerHighEnd_Inh	3.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.011062
278	ALL	575555.90	4173860.14	3.55E-06	2YrCancerHighEnd_Inh	3.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.010391
279	ALL	575605.90	4173860.14	3.30E-06	2YrCancerHighEnd_Inh	3.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.009644
280	ALL	575055.90	4173910.14	1.86E-06	2YrCancerHighEnd_Inh	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005434
281	ALL	575105.90	4173910.14	2.03E-06	2YrCancerHighEnd_Inh	2.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005944
282	ALL	575155.90	4173910.14	2.22E-06	2YrCancerHighEnd_Inh	2.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.006476
283	ALL	575205.90	4173910.14	2.37E-06	2YrCancerHighEnd_Inh	2.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.006918
284	ALL	575255.90	4173910.14	2.43E-06	2YrCancerHighEnd_Inh	2.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.007095
285	ALL	575305.90	4173910.14	2.46E-06	2YrCancerHighEnd_Inh	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.007205
286	ALL	575355.90	4173910.14	2.60E-06	2YrCancerHighEnd_Inh	2.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.007598
287	ALL	575405.90	4173910.14	2.67E-06	2YrCancerHighEnd_Inh	2.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.007809
288	ALL	575455.90	4173910.14	2.62E-06	2YrCancerHighEnd_Inh	2.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.007664
289	ALL	575505.90	4173910.14	2.53E-06	2YrCancerHighEnd_Inh	2.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00739
290	ALL	575555.90	4173910.14	2.42E-06	2YrCancerHighEnd_Inh	2.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.007075
291	ALL	575605.90	4173910.14	2.30E-06	2YrCancerHighEnd_Inh	2.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.006733
292	ALL	575055.90	4173960.14	1.46E-06	2YrCancerHighEnd_Inh	1.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.004255
293	ALL	575105.90	4173960.14	1.56E-06	2YrCancerHighEnd_Inh	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.004556
294	ALL	575155.90	4173960.14	1.66E-06	2YrCancerHighEnd_Inh	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.004858
295	ALL	575205.90	4173960.14	1.73E-06	2YrCancerHighEnd_Inh	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00505
296	ALL	575255.90	4173960.14	1.74E-06	2YrCancerHighEnd_Inh	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005073
297	ALL	575305.90	4173960.14	1.73E-06	2YrCancerHighEnd_Inh	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005049
298	ALL	575355.90	4173960.14	1.82E-06	2YrCancerHighEnd_Inh	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005327
299	ALL	575405.90	4173960.14	1.89E-06	2YrCancerHighEnd_Inh	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005531
300	ALL	575455.90	4173960.14	1.88E-06	2YrCancerHighEnd_Inh	1.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005486
301	ALL	575505.90	4173960.14	1.82E-06	2YrCancerHighEnd_Inh	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005308
302	ALL	575555.90	4173960.14	1.76E-06	2YrCancerHighEnd_Inh	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005146
303	ALL	575605.90	4173960.14	1.69E-06	2YrCancerHighEnd_Inh	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.004941
304	ALL	573255.90	4171560.14	1.69E-07	2YrCancerHighEnd_Inh	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000495
305	ALL	573455.90	4171560.14	1.69E-07	2YrCancerHighEnd_Inh	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000495
306	ALL	573655.90	4171560.14	1.72E-07	2YrCancerHighEnd_Inh	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000504
307	ALL	573855.90	4171560.14	1.78E-07	2YrCancerHighEnd_Inh	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000521
308	ALL	574055.90	4171560.14	1.83E-07	2YrCancerHighEnd_Inh	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000534
309	ALL	574255.90	4171560.14	1.82E-07	2YrCancerHighEnd_Inh	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000532
310	ALL	574455.90	4171560.14	1.78E-07	2YrCancerHighEnd_Inh	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000521
311	ALL	574655.90	4171560.14	1.72E-07	2YrCancerHighEnd_Inh	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000503
312	ALL	574855.90	4171560.14	1.62E-07	2YrCancerHighEnd_Inh	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000473
313	ALL	575055.90	4171560.14	1.55E-07	2YrCancerHighEnd_Inh	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000452
314	ALL	575255.90	4171560.14	1.46E-07	2YrCancerHighEnd_Inh	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000427
315	ALL	575455.90	4171560.14	1.42E-07	2YrCancerHighEnd_Inh	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000415
316	ALL	575655.90	4171560.14	1.54E-07	2YrCancerHighEnd_Inh	1.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000449
317	ALL	575855.90	4171560.14	1.73E-07	2YrCancerHighEnd_Inh	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000507
318	ALL	576055.90	4171560.14	1.92E-07	2YrCancerHighEnd_Inh	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00056
319	ALL	576255.90	4171560.14	2.08E-07	2YrCancerHighEnd_Inh	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000609
320	ALL	576455.90	4171560.14	2.20E-07	2YrCancerHighEnd_Inh	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000643
321	ALL	576655.90	4171560.14	2.19E-07	2YrCancerHighEnd_Inh	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00064
322	ALL	576855.90	4171560.14	2.07E-07	2YrCancerHighEnd_Inh	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000605
323	ALL	577055.90	4171560.14	1.91E-07	2YrCancerHighEnd_Inh	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000558
324	ALL	577255.90	4171560.14	1.75E-07	2YrCancerHighEnd_Inh	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000512
325	ALL	577455.90	4171560.14	1.62E-07	2YrCancerHighEnd_Inh	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000472
326	ALL	573255.90	4171760.14	1.98E-07	2YrCancerHighEnd_Inh	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00058
327	ALL	573455.90	4171760.14	2.01E-07	2YrCancerHighEnd_Inh	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000587
328	ALL	573655.90	4171760.14	2.02E-07	2YrCancerHighEnd_Inh	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00059

329	ALL	573855.90	4171760.14	2.06E-07	2YrCancerHighEnd_Inh	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000601
330	ALL	574055.90	4171760.14	2.13E-07	2YrCancerHighEnd_Inh	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000623
331	ALL	574255.90	4171760.14	2.17E-07	2YrCancerHighEnd_Inh	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000633
332	ALL	574455.90	4171760.14	2.13E-07	2YrCancerHighEnd_Inh	2.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000623
333	ALL	574655.90	4171760.14	2.07E-07	2YrCancerHighEnd_Inh	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000605
334	ALL	574855.90	4171760.14	1.95E-07	2YrCancerHighEnd_Inh	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00057
335	ALL	575055.90	4171760.14	1.85E-07	2YrCancerHighEnd_Inh	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00054
336	ALL	575255.90	4171760.14	1.74E-07	2YrCancerHighEnd_Inh	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000509
337	ALL	575455.90	4171760.14	1.70E-07	2YrCancerHighEnd_Inh	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000496
338	ALL	575655.90	4171760.14	1.87E-07	2YrCancerHighEnd_Inh	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000545
339	ALL	575855.90	4171760.14	2.12E-07	2YrCancerHighEnd_Inh	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00062
340	ALL	576055.90	4171760.14	2.35E-07	2YrCancerHighEnd_Inh	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000688
341	ALL	576255.90	4171760.14	2.54E-07	2YrCancerHighEnd_Inh	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000744
342	ALL	576455.90	4171760.14	2.61E-07	2YrCancerHighEnd_Inh	2.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000763
343	ALL	576655.90	4171760.14	2.50E-07	2YrCancerHighEnd_Inh	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000732
344	ALL	576855.90	4171760.14	2.30E-07	2YrCancerHighEnd_Inh	2.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000673
345	ALL	577055.90	4171760.14	2.10E-07	2YrCancerHighEnd_Inh	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000613
346	ALL	577255.90	4171760.14	1.91E-07	2YrCancerHighEnd_Inh	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00056
347	ALL	577455.90	4171760.14	1.76E-07	2YrCancerHighEnd_Inh	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000515
348	ALL	573255.90	4171960.14	2.26E-07	2YrCancerHighEnd_Inh	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000661
349	ALL	573455.90	4171960.14	2.38E-07	2YrCancerHighEnd_Inh	2.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000696
350	ALL	573655.90	4171960.14	2.42E-07	2YrCancerHighEnd_Inh	2.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000709
351	ALL	573855.90	4171960.14	2.44E-07	2YrCancerHighEnd_Inh	2.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000714
352	ALL	574055.90	4171960.14	2.50E-07	2YrCancerHighEnd_Inh	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000732
353	ALL	574255.90	4171960.14	2.59E-07	2YrCancerHighEnd_Inh	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000757
354	ALL	574455.90	4171960.14	2.60E-07	2YrCancerHighEnd_Inh	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000761
355	ALL	574655.90	4171960.14	2.54E-07	2YrCancerHighEnd_Inh	2.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000742
356	ALL	574855.90	4171960.14	2.41E-07	2YrCancerHighEnd_Inh	2.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000704
357	ALL	575055.90	4171960.14	2.25E-07	2YrCancerHighEnd_Inh	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000659
358	ALL	575255.90	4171960.14	2.12E-07	2YrCancerHighEnd_Inh	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000619
359	ALL	575455.90	4171960.14	2.07E-07	2YrCancerHighEnd_Inh	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000605
360	ALL	575655.90	4171960.14	2.32E-07	2YrCancerHighEnd_Inh	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000678
361	ALL	575855.90	4171960.14	2.66E-07	2YrCancerHighEnd_Inh	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000777
362	ALL	576055.90	4171960.14	2.95E-07	2YrCancerHighEnd_Inh	2.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000863
363	ALL	576255.90	4171960.14	3.14E-07	2YrCancerHighEnd_Inh	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000917
364	ALL	576455.90	4171960.14	3.08E-07	2YrCancerHighEnd_Inh	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.0009
365	ALL	576655.90	4171960.14	2.84E-07	2YrCancerHighEnd_Inh	2.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000829
366	ALL	576855.90	4171960.14	2.56E-07	2YrCancerHighEnd_Inh	2.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000748
367	ALL	577055.90	4171960.14	2.31E-07	2YrCancerHighEnd_Inh	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000676
368	ALL	577255.90	4171960.14	2.11E-07	2YrCancerHighEnd_Inh	2.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000617
369	ALL	577455.90	4171960.14	1.94E-07	2YrCancerHighEnd_Inh	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000569
370	ALL	573255.90	4172160.14	2.44E-07	2YrCancerHighEnd_Inh	2.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000714
371	ALL	573455.90	4172160.14	2.72E-07	2YrCancerHighEnd_Inh	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000796
372	ALL	573655.90	4172160.14	2.92E-07	2YrCancerHighEnd_Inh	2.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000852
373	ALL	573855.90	4172160.14	3.00E-07	2YrCancerHighEnd_Inh	3.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000876
374	ALL	574055.90	4172160.14	3.03E-07	2YrCancerHighEnd_Inh	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000886
375	ALL	574255.90	4172160.14	3.13E-07	2YrCancerHighEnd_Inh	3.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000915
376	ALL	574455.90	4172160.14	3.22E-07	2YrCancerHighEnd_Inh	3.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000942
377	ALL	574655.90	4172160.14	3.18E-07	2YrCancerHighEnd_Inh	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000931
378	ALL	574855.90	4172160.14	3.04E-07	2YrCancerHighEnd_Inh	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00089
379	ALL	575055.90	4172160.14	2.83E-07	2YrCancerHighEnd_Inh	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000826
380	ALL	575255.90	4172160.14	2.64E-07	2YrCancerHighEnd_Inh	2.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000772
381	ALL	575455.90	4172160.14	2.60E-07	2YrCancerHighEnd_Inh	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000759
382	ALL	575655.90	4172160.14	2.98E-07	2YrCancerHighEnd_Inh	2.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00087
383	ALL	575855.90	4172160.14	3.43E-07	2YrCancerHighEnd_Inh	3.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001002
384	ALL	576055.90	4172160.14	3.79E-07	2YrCancerHighEnd_Inh	3.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001108
385	ALL	576255.90	4172160.14	3.86E-07	2YrCancerHighEnd_Inh	3.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001129
386	ALL	576455.90	4172160.14	3.59E-07	2YrCancerHighEnd_Inh	3.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00105
387	ALL	576655.90	4172160.14	3.21E-07	2YrCancerHighEnd_Inh	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000939
388	ALL	576855.90	4172160.14	2.86E-07	2YrCancerHighEnd_Inh	2.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000837
389	ALL	577055.90	4172160.14	2.58E-07	2YrCancerHighEnd_Inh	2.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000756
390	ALL	577255.90	4172160.14	2.37E-07	2YrCancerHighEnd_Inh	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000693
391	ALL	577455.90	4172160.14	2.23E-07	2YrCancerHighEnd_Inh	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000651
392	ALL	573255.90	4172360.14	2.47E-07	2YrCancerHighEnd_Inh	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000721
393	ALL	573455.90	4172360.14	2.91E-07	2YrCancerHighEnd_Inh	2.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000851
394	ALL	573655.90	4172360.14	3.34E-07	2YrCancerHighEnd_Inh	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000977

395	ALL	573855.90	4172360.14	3.67E-07	2YrCancerHighEnd_Inh	3.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001074
396	ALL	574055.90	4172360.14	3.82E-07	2YrCancerHighEnd_Inh	3.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001118
397	ALL	574255.90	4172360.14	3.90E-07	2YrCancerHighEnd_Inh	3.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00114
398	ALL	574455.90	4172360.14	4.04E-07	2YrCancerHighEnd_Inh	4.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001182
399	ALL	574655.90	4172360.14	4.11E-07	2YrCancerHighEnd_Inh	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001201
400	ALL	574855.90	4172360.14	3.97E-07	2YrCancerHighEnd_Inh	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001161
401	ALL	575055.90	4172360.14	3.68E-07	2YrCancerHighEnd_Inh	3.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001075
402	ALL	575255.90	4172360.14	3.40E-07	2YrCancerHighEnd_Inh	3.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000994
403	ALL	575455.90	4172360.14	3.38E-07	2YrCancerHighEnd_Inh	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000988
404	ALL	575655.90	4172360.14	3.96E-07	2YrCancerHighEnd_Inh	3.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001158
405	ALL	575855.90	4172360.14	4.60E-07	2YrCancerHighEnd_Inh	4.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001343
406	ALL	576055.90	4172360.14	4.94E-07	2YrCancerHighEnd_Inh	4.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001445
407	ALL	576255.90	4172360.14	4.71E-07	2YrCancerHighEnd_Inh	4.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001377
408	ALL	576455.90	4172360.14	4.17E-07	2YrCancerHighEnd_Inh	4.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001219
409	ALL	576655.90	4172360.14	3.66E-07	2YrCancerHighEnd_Inh	3.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00107
410	ALL	576855.90	4172360.14	3.26E-07	2YrCancerHighEnd_Inh	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000953
411	ALL	577055.90	4172360.14	2.97E-07	2YrCancerHighEnd_Inh	2.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00087
412	ALL	577255.90	4172360.14	2.81E-07	2YrCancerHighEnd_Inh	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000821
413	ALL	577455.90	4172360.14	2.71E-07	2YrCancerHighEnd_Inh	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000793
414	ALL	573255.90	4172560.14	2.35E-07	2YrCancerHighEnd_Inh	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000686
415	ALL	573455.90	4172560.14	2.87E-07	2YrCancerHighEnd_Inh	2.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000838
416	ALL	573655.90	4172560.14	3.51E-07	2YrCancerHighEnd_Inh	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001026
417	ALL	573855.90	4172560.14	4.21E-07	2YrCancerHighEnd_Inh	4.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00123
418	ALL	574055.90	4172560.14	4.79E-07	2YrCancerHighEnd_Inh	4.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001399
419	ALL	574255.90	4172560.14	5.07E-07	2YrCancerHighEnd_Inh	5.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001483
420	ALL	574455.90	4172560.14	5.24E-07	2YrCancerHighEnd_Inh	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001531
421	ALL	574655.90	4172560.14	5.44E-07	2YrCancerHighEnd_Inh	5.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00159
422	ALL	574855.90	4172560.14	5.40E-07	2YrCancerHighEnd_Inh	5.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001578
423	ALL	575055.90	4172560.14	5.02E-07	2YrCancerHighEnd_Inh	5.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001468
424	ALL	575255.90	4172560.14	4.58E-07	2YrCancerHighEnd_Inh	4.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00134
425	ALL	575455.90	4172560.14	4.61E-07	2YrCancerHighEnd_Inh	4.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001348
426	ALL	575655.90	4172560.14	5.57E-07	2YrCancerHighEnd_Inh	5.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001628
427	ALL	575855.90	4172560.14	6.42E-07	2YrCancerHighEnd_Inh	6.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001877
428	ALL	576055.90	4172560.14	6.44E-07	2YrCancerHighEnd_Inh	6.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001883
429	ALL	576255.90	4172560.14	5.68E-07	2YrCancerHighEnd_Inh	5.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001662
430	ALL	576455.90	4172560.14	4.88E-07	2YrCancerHighEnd_Inh	4.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001427
431	ALL	576655.90	4172560.14	4.28E-07	2YrCancerHighEnd_Inh	4.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001251
432	ALL	576855.90	4172560.14	3.90E-07	2YrCancerHighEnd_Inh	3.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001139
433	ALL	577055.90	4172560.14	3.69E-07	2YrCancerHighEnd_Inh	3.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001077
434	ALL	577255.90	4172560.14	3.51E-07	2YrCancerHighEnd_Inh	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001025
435	ALL	577455.90	4172560.14	3.26E-07	2YrCancerHighEnd_Inh	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000953
436	ALL	573255.90	4172760.14	2.19E-07	2YrCancerHighEnd_Inh	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000639
437	ALL	573455.90	4172760.14	2.68E-07	2YrCancerHighEnd_Inh	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000783
438	ALL	573655.90	4172760.14	3.36E-07	2YrCancerHighEnd_Inh	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000981
439	ALL	573855.90	4172760.14	4.29E-07	2YrCancerHighEnd_Inh	4.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001254
440	ALL	574055.90	4172760.14	5.44E-07	2YrCancerHighEnd_Inh	5.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00159
441	ALL	574255.90	4172760.14	6.54E-07	2YrCancerHighEnd_Inh	6.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001911
442	ALL	574455.90	4172760.14	7.16E-07	2YrCancerHighEnd_Inh	7.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002093
443	ALL	574655.90	4172760.14	7.49E-07	2YrCancerHighEnd_Inh	7.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002189
444	ALL	574855.90	4172760.14	7.70E-07	2YrCancerHighEnd_Inh	7.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002251
445	ALL	575055.90	4172760.14	7.31E-07	2YrCancerHighEnd_Inh	7.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002137
446	ALL	575255.90	4172760.14	6.59E-07	2YrCancerHighEnd_Inh	6.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001926
447	ALL	575455.90	4172760.14	6.76E-07	2YrCancerHighEnd_Inh	6.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001975
448	ALL	575655.90	4172760.14	8.42E-07	2YrCancerHighEnd_Inh	8.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002461
449	ALL	575855.90	4172760.14	9.26E-07	2YrCancerHighEnd_Inh	9.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002707
450	ALL	576055.90	4172760.14	8.29E-07	2YrCancerHighEnd_Inh	8.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002423
451	ALL	576255.90	4172760.14	6.92E-07	2YrCancerHighEnd_Inh	6.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002023
452	ALL	576455.90	4172760.14	5.95E-07	2YrCancerHighEnd_Inh	5.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001739
453	ALL	576655.90	4172760.14	5.41E-07	2YrCancerHighEnd_Inh	5.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00158
454	ALL	576855.90	4172760.14	5.05E-07	2YrCancerHighEnd_Inh	5.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001476
455	ALL	577055.90	4172760.14	4.61E-07	2YrCancerHighEnd_Inh	4.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001348
456	ALL	577255.90	4172760.14	4.06E-07	2YrCancerHighEnd_Inh	4.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001187
457	ALL	577455.90	4172760.14	3.50E-07	2YrCancerHighEnd_Inh	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001023
458	ALL	573255.90	4172960.14	2.02E-07	2YrCancerHighEnd_Inh	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000592
459	ALL	573455.90	4172960.14	2.47E-07	2YrCancerHighEnd_Inh	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000722
460	ALL	573655.90	4172960.14	3.08E-07	2YrCancerHighEnd_Inh	3.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000901

461	ALL	573855.90	4172960.14	3.97E-07	2YrCancerHighEnd_Inh	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00116
462	ALL	574055.90	4172960.14	5.30E-07	2YrCancerHighEnd_Inh	5.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001549
463	ALL	574255.90	4172960.14	7.24E-07	2YrCancerHighEnd_Inh	7.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002117
464	ALL	574455.90	4172960.14	9.51E-07	2YrCancerHighEnd_Inh	9.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00278
465	ALL	574655.90	4172960.14	1.11E-06	2YrCancerHighEnd_Inh	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.003232
466	ALL	574855.90	4172960.14	1.17E-06	2YrCancerHighEnd_Inh	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.003432
467	ALL	575055.90	4172960.14	1.17E-06	2YrCancerHighEnd_Inh	1.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.003409
468	ALL	575255.90	4172960.14	1.04E-06	2YrCancerHighEnd_Inh	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00304
469	ALL	575455.90	4172960.14	1.10E-06	2YrCancerHighEnd_Inh	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.003222
470	ALL	575655.90	4172960.14	1.40E-06	2YrCancerHighEnd_Inh	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.004092
471	ALL	575855.90	4172960.14	1.34E-06	2YrCancerHighEnd_Inh	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.003903
472	ALL	576055.90	4172960.14	1.08E-06	2YrCancerHighEnd_Inh	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.003143
473	ALL	576255.90	4172960.14	9.03E-07	2YrCancerHighEnd_Inh	9.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002639
474	ALL	576455.90	4172960.14	8.10E-07	2YrCancerHighEnd_Inh	8.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002368
475	ALL	576655.90	4172960.14	7.18E-07	2YrCancerHighEnd_Inh	7.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002099
476	ALL	576855.90	4172960.14	6.08E-07	2YrCancerHighEnd_Inh	6.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001777
477	ALL	577055.90	4172960.14	5.01E-07	2YrCancerHighEnd_Inh	5.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001466
478	ALL	577255.90	4172960.14	4.14E-07	2YrCancerHighEnd_Inh	4.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001209
479	ALL	577455.90	4172960.14	3.44E-07	2YrCancerHighEnd_Inh	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001005
480	ALL	573255.90	4173160.14	1.81E-07	2YrCancerHighEnd_Inh	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000529
481	ALL	573455.90	4173160.14	2.21E-07	2YrCancerHighEnd_Inh	2.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000646
482	ALL	573655.90	4173160.14	2.77E-07	2YrCancerHighEnd_Inh	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000809
483	ALL	573855.90	4173160.14	3.56E-07	2YrCancerHighEnd_Inh	3.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00104
484	ALL	574055.90	4173160.14	4.75E-07	2YrCancerHighEnd_Inh	4.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001389
485	ALL	574255.90	4173160.14	6.66E-07	2YrCancerHighEnd_Inh	6.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001948
486	ALL	574455.90	4173160.14	9.99E-07	2YrCancerHighEnd_Inh	9.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002919
487	ALL	574655.90	4173160.14	1.51E-06	2YrCancerHighEnd_Inh	1.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.004404
488	ALL	574855.90	4173160.14	1.97E-06	2YrCancerHighEnd_Inh	1.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00576
489	ALL	575055.90	4173160.14	2.14E-06	2YrCancerHighEnd_Inh	2.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.006269
490	ALL	575255.90	4173160.14	1.95E-06	2YrCancerHighEnd_Inh	1.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005689
491	ALL	575455.90	4173160.14	2.18E-06	2YrCancerHighEnd_Inh	2.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.006377
492	ALL	575655.90	4173160.14	2.53E-06	2YrCancerHighEnd_Inh	2.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.007406
493	ALL	575855.90	4173160.14	1.95E-06	2YrCancerHighEnd_Inh	1.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005713
494	ALL	576055.90	4173160.14	1.58E-06	2YrCancerHighEnd_Inh	1.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.004613
495	ALL	576255.90	4173160.14	1.32E-06	2YrCancerHighEnd_Inh	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.003856
496	ALL	576455.90	4173160.14	1.04E-06	2YrCancerHighEnd_Inh	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.003036
497	ALL	576655.90	4173160.14	7.96E-07	2YrCancerHighEnd_Inh	7.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002327
498	ALL	576855.90	4173160.14	6.16E-07	2YrCancerHighEnd_Inh	6.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001802
499	ALL	577055.90	4173160.14	4.88E-07	2YrCancerHighEnd_Inh	4.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001427
500	ALL	577255.90	4173160.14	3.96E-07	2YrCancerHighEnd_Inh	3.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001158
501	ALL	577455.90	4173160.14	3.28E-07	2YrCancerHighEnd_Inh	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00096
502	ALL	573255.90	4173360.14	1.55E-07	2YrCancerHighEnd_Inh	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000454
503	ALL	573455.90	4173360.14	1.89E-07	2YrCancerHighEnd_Inh	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000552
504	ALL	573655.90	4173360.14	2.35E-07	2YrCancerHighEnd_Inh	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000688
505	ALL	573855.90	4173360.14	3.02E-07	2YrCancerHighEnd_Inh	3.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000882
506	ALL	574055.90	4173360.14	4.02E-07	2YrCancerHighEnd_Inh	4.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001174
507	ALL	574255.90	4173360.14	5.65E-07	2YrCancerHighEnd_Inh	5.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001652
508	ALL	574455.90	4173360.14	8.50E-07	2YrCancerHighEnd_Inh	8.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002483
509	ALL	574655.90	4173360.14	1.42E-06	2YrCancerHighEnd_Inh	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.004154
510	ALL	574855.90	4173360.14	2.72E-06	2YrCancerHighEnd_Inh	2.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00795
511	ALL	575655.90	4173360.14	4.99E-06	2YrCancerHighEnd_Inh	4.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.014589
512	ALL	575855.90	4173360.14	3.47E-06	2YrCancerHighEnd_Inh	3.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.010131
513	ALL	576055.90	4173360.14	2.29E-06	2YrCancerHighEnd_Inh	2.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.006682
514	ALL	576255.90	4173360.14	1.50E-06	2YrCancerHighEnd_Inh	1.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.004398
515	ALL	576455.90	4173360.14	1.04E-06	2YrCancerHighEnd_Inh	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.003047
516	ALL	576655.90	4173360.14	7.63E-07	2YrCancerHighEnd_Inh	7.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00223
517	ALL	576855.90	4173360.14	5.83E-07	2YrCancerHighEnd_Inh	5.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001705
518	ALL	577055.90	4173360.14	4.61E-07	2YrCancerHighEnd_Inh	4.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001349
519	ALL	577255.90	4173360.14	3.75E-07	2YrCancerHighEnd_Inh	3.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001097
520	ALL	577455.90	4173360.14	3.12E-07	2YrCancerHighEnd_Inh	3.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000912
521	ALL	573255.90	4173560.14	1.34E-07	2YrCancerHighEnd_Inh	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000391
522	ALL	573455.90	4173560.14	1.60E-07	2YrCancerHighEnd_Inh	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000468
523	ALL	573655.90	4173560.14	1.96E-07	2YrCancerHighEnd_Inh	1.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000572
524	ALL	573855.90	4173560.14	2.46E-07	2YrCancerHighEnd_Inh	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000719
525	ALL	574055.90	4173560.14	3.20E-07	2YrCancerHighEnd_Inh	3.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000936
526	ALL	574255.90	4173560.14	4.37E-07	2YrCancerHighEnd_Inh	4.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001279

527	ALL	574455.90	4173560.14	6.40E-07	2YrCancerHighEnd_Inh	6.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001872
528	ALL	574655.90	4173560.14	1.04E-06	2YrCancerHighEnd_Inh	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.003047
529	ALL	574855.90	4173560.14	2.04E-06	2YrCancerHighEnd_Inh	2.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.005966
530	ALL	575655.90	4173560.14	1.03E-05	2YrCancerHighEnd_Inh	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.030036
531	ALL	575855.90	4173560.14	4.12E-06	2YrCancerHighEnd_Inh	4.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.012031
532	ALL	576055.90	4173560.14	2.19E-06	2YrCancerHighEnd_Inh	2.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.006408
533	ALL	576255.90	4173560.14	1.37E-06	2YrCancerHighEnd_Inh	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.004016
534	ALL	576455.90	4173560.14	9.47E-07	2YrCancerHighEnd_Inh	9.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002768
535	ALL	576655.90	4173560.14	6.96E-07	2YrCancerHighEnd_Inh	6.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002035
536	ALL	576855.90	4173560.14	5.36E-07	2YrCancerHighEnd_Inh	5.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001567
537	ALL	577055.90	4173560.14	4.27E-07	2YrCancerHighEnd_Inh	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001249
538	ALL	577255.90	4173560.14	3.50E-07	2YrCancerHighEnd_Inh	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001023
539	ALL	577455.90	4173560.14	2.92E-07	2YrCancerHighEnd_Inh	2.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000855
540	ALL	573255.90	4173760.14	1.21E-07	2YrCancerHighEnd_Inh	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000354
541	ALL	573455.90	4173760.14	1.44E-07	2YrCancerHighEnd_Inh	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00042
542	ALL	573655.90	4173760.14	1.73E-07	2YrCancerHighEnd_Inh	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000507
543	ALL	573855.90	4173760.14	2.15E-07	2YrCancerHighEnd_Inh	2.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000627
544	ALL	574055.90	4173760.14	2.74E-07	2YrCancerHighEnd_Inh	2.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000802
545	ALL	574255.90	4173760.14	3.65E-07	2YrCancerHighEnd_Inh	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001068
546	ALL	574455.90	4173760.14	5.17E-07	2YrCancerHighEnd_Inh	5.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001511
547	ALL	574655.90	4173760.14	7.99E-07	2YrCancerHighEnd_Inh	7.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002336
548	ALL	574855.90	4173760.14	1.43E-06	2YrCancerHighEnd_Inh	1.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.004191
549	ALL	575655.90	4173760.14	5.76E-06	2YrCancerHighEnd_Inh	5.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.016826
550	ALL	575855.90	4173760.14	2.87E-06	2YrCancerHighEnd_Inh	2.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.008396
551	ALL	576055.90	4173760.14	1.70E-06	2YrCancerHighEnd_Inh	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.004972
552	ALL	576255.90	4173760.14	1.13E-06	2YrCancerHighEnd_Inh	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.003308
553	ALL	576455.90	4173760.14	8.10E-07	2YrCancerHighEnd_Inh	8.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002368
554	ALL	576655.90	4173760.14	6.12E-07	2YrCancerHighEnd_Inh	6.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001788
555	ALL	576855.90	4173760.14	4.80E-07	2YrCancerHighEnd_Inh	4.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001403
556	ALL	577055.90	4173760.14	3.88E-07	2YrCancerHighEnd_Inh	3.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001135
557	ALL	577255.90	4173760.14	3.21E-07	2YrCancerHighEnd_Inh	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000938
558	ALL	577455.90	4173760.14	2.70E-07	2YrCancerHighEnd_Inh	2.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00079
559	ALL	573255.90	4173960.14	1.16E-07	2YrCancerHighEnd_Inh	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00034
560	ALL	573455.90	4173960.14	1.38E-07	2YrCancerHighEnd_Inh	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000402
561	ALL	573655.90	4173960.14	1.66E-07	2YrCancerHighEnd_Inh	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000486
562	ALL	573855.90	4173960.14	2.06E-07	2YrCancerHighEnd_Inh	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000601
563	ALL	574055.90	4173960.14	2.62E-07	2YrCancerHighEnd_Inh	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000766
564	ALL	574255.90	4173960.14	3.46E-07	2YrCancerHighEnd_Inh	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001011
565	ALL	574455.90	4173960.14	4.77E-07	2YrCancerHighEnd_Inh	4.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001394
566	ALL	574655.90	4173960.14	6.95E-07	2YrCancerHighEnd_Inh	6.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002032
567	ALL	574855.90	4173960.14	1.06E-06	2YrCancerHighEnd_Inh	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00309
568	ALL	575655.90	4173960.14	1.62E-06	2YrCancerHighEnd_Inh	1.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.004733
569	ALL	575855.90	4173960.14	1.37E-06	2YrCancerHighEnd_Inh	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.003993
570	ALL	576055.90	4173960.14	1.06E-06	2YrCancerHighEnd_Inh	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.003111
571	ALL	576255.90	4173960.14	8.11E-07	2YrCancerHighEnd_Inh	8.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002372
572	ALL	576455.90	4173960.14	6.32E-07	2YrCancerHighEnd_Inh	6.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001847
573	ALL	576655.90	4173960.14	5.04E-07	2YrCancerHighEnd_Inh	5.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001474
574	ALL	576855.90	4173960.14	4.11E-07	2YrCancerHighEnd_Inh	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001202
575	ALL	577055.90	4173960.14	3.41E-07	2YrCancerHighEnd_Inh	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000997
576	ALL	577255.90	4173960.14	2.88E-07	2YrCancerHighEnd_Inh	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000841
577	ALL	577455.90	4173960.14	2.36E-07	2YrCancerHighEnd_Inh	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000689
578	ALL	573255.90	4174160.14	1.15E-07	2YrCancerHighEnd_Inh	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000336
579	ALL	573455.90	4174160.14	1.36E-07	2YrCancerHighEnd_Inh	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000397
580	ALL	573655.90	4174160.14	1.63E-07	2YrCancerHighEnd_Inh	1.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000475
581	ALL	573855.90	4174160.14	1.98E-07	2YrCancerHighEnd_Inh	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000579
582	ALL	574055.90	4174160.14	2.46E-07	2YrCancerHighEnd_Inh	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000719
583	ALL	574255.90	4174160.14	3.13E-07	2YrCancerHighEnd_Inh	3.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000914
584	ALL	574455.90	4174160.14	4.05E-07	2YrCancerHighEnd_Inh	4.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001185
585	ALL	574655.90	4174160.14	5.11E-07	2YrCancerHighEnd_Inh	5.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001493
586	ALL	574855.90	4174160.14	5.82E-07	2YrCancerHighEnd_Inh	5.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.0017
587	ALL	575055.90	4174160.14	6.72E-07	2YrCancerHighEnd_Inh	6.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001965
588	ALL	575255.90	4174160.14	6.29E-07	2YrCancerHighEnd_Inh	6.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001839
589	ALL	575455.90	4174160.14	7.04E-07	2YrCancerHighEnd_Inh	7.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002057
590	ALL	575655.90	4174160.14	6.85E-07	2YrCancerHighEnd_Inh	6.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.002001
591	ALL	575855.90	4174160.14	5.90E-07	2YrCancerHighEnd_Inh	5.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001724
592	ALL	576055.90	4174160.14	5.60E-07	2YrCancerHighEnd_Inh	5.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001636

593	ALL	576255.90	4174160.14	5.24E-07	2YrCancerHighEnd_Inh	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001531
594	ALL	576455.90	4174160.14	4.55E-07	2YrCancerHighEnd_Inh	4.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001331
595	ALL	576655.90	4174160.14	3.87E-07	2YrCancerHighEnd_Inh	3.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001132
596	ALL	576855.90	4174160.14	3.23E-07	2YrCancerHighEnd_Inh	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000945
597	ALL	577055.90	4174160.14	2.63E-07	2YrCancerHighEnd_Inh	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000769
598	ALL	577255.90	4174160.14	2.08E-07	2YrCancerHighEnd_Inh	2.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000609
599	ALL	577455.90	4174160.14	1.88E-07	2YrCancerHighEnd_Inh	1.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000549
600	ALL	573255.90	4174360.14	1.12E-07	2YrCancerHighEnd_Inh	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000327
601	ALL	573455.90	4174360.14	1.30E-07	2YrCancerHighEnd_Inh	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00038
602	ALL	573655.90	4174360.14	1.53E-07	2YrCancerHighEnd_Inh	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000448
603	ALL	573855.90	4174360.14	1.83E-07	2YrCancerHighEnd_Inh	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000534
604	ALL	574055.90	4174360.14	2.20E-07	2YrCancerHighEnd_Inh	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000644
605	ALL	574255.90	4174360.14	2.65E-07	2YrCancerHighEnd_Inh	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000774
606	ALL	574455.90	4174360.14	3.03E-07	2YrCancerHighEnd_Inh	3.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000885
607	ALL	574655.90	4174360.14	3.21E-07	2YrCancerHighEnd_Inh	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000939
608	ALL	574855.90	4174360.14	3.53E-07	2YrCancerHighEnd_Inh	3.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001032
609	ALL	575055.90	4174360.14	3.65E-07	2YrCancerHighEnd_Inh	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001066
610	ALL	575255.90	4174360.14	3.19E-07	2YrCancerHighEnd_Inh	3.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000934
611	ALL	575455.90	4174360.14	3.77E-07	2YrCancerHighEnd_Inh	3.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001101
612	ALL	575655.90	4174360.14	3.48E-07	2YrCancerHighEnd_Inh	3.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001018
613	ALL	575855.90	4174360.14	3.61E-07	2YrCancerHighEnd_Inh	3.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.001055
614	ALL	576055.90	4174360.14	3.27E-07	2YrCancerHighEnd_Inh	3.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000957
615	ALL	576255.90	4174360.14	3.14E-07	2YrCancerHighEnd_Inh	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000917
616	ALL	576455.90	4174360.14	3.04E-07	2YrCancerHighEnd_Inh	3.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000889
617	ALL	576655.90	4174360.14	2.76E-07	2YrCancerHighEnd_Inh	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000806
618	ALL	576855.90	4174360.14	1.81E-07	2YrCancerHighEnd_Inh	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000528
619	ALL	577055.90	4174360.14	1.47E-07	2YrCancerHighEnd_Inh	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00043
620	ALL	577255.90	4174360.14	1.49E-07	2YrCancerHighEnd_Inh	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000435
621	ALL	577455.90	4174360.14	1.36E-07	2YrCancerHighEnd_Inh	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000398
622	ALL	573255.90	4174560.14	1.06E-07	2YrCancerHighEnd_Inh	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000309
623	ALL	573455.90	4174560.14	1.22E-07	2YrCancerHighEnd_Inh	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000356
624	ALL	573655.90	4174560.14	1.41E-07	2YrCancerHighEnd_Inh	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000412
625	ALL	573855.90	4174560.14	1.64E-07	2YrCancerHighEnd_Inh	1.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000478
626	ALL	574055.90	4174560.14	1.86E-07	2YrCancerHighEnd_Inh	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000544
627	ALL	574255.90	4174560.14	2.02E-07	2YrCancerHighEnd_Inh	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00059
628	ALL	574455.90	4174560.14	2.07E-07	2YrCancerHighEnd_Inh	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000606
629	ALL	574655.90	4174560.14	2.19E-07	2YrCancerHighEnd_Inh	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00064
630	ALL	574855.90	4174560.14	2.39E-07	2YrCancerHighEnd_Inh	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000699
631	ALL	575055.90	4174560.14	2.14E-07	2YrCancerHighEnd_Inh	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000624
632	ALL	575255.90	4174560.14	2.01E-07	2YrCancerHighEnd_Inh	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000587
633	ALL	575455.90	4174560.14	2.40E-07	2YrCancerHighEnd_Inh	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000701
634	ALL	575655.90	4174560.14	2.17E-07	2YrCancerHighEnd_Inh	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000633
635	ALL	575855.90	4174560.14	2.32E-07	2YrCancerHighEnd_Inh	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000678
636	ALL	576055.90	4174560.14	2.23E-07	2YrCancerHighEnd_Inh	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000653
637	ALL	576255.90	4174560.14	2.01E-07	2YrCancerHighEnd_Inh	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000587
638	ALL	576455.90	4174560.14	1.95E-07	2YrCancerHighEnd_Inh	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000571
639	ALL	576655.90	4174560.14	1.50E-07	2YrCancerHighEnd_Inh	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000439
640	ALL	576855.90	4174560.14	1.37E-07	2YrCancerHighEnd_Inh	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000401
641	ALL	577055.90	4174560.14	1.14E-07	2YrCancerHighEnd_Inh	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000332
642	ALL	577255.90	4174560.14	1.01E-07	2YrCancerHighEnd_Inh	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000294
643	ALL	577455.90	4174560.14	1.07E-07	2YrCancerHighEnd_Inh	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000314
644	ALL	573255.90	4174760.14	9.93E-08	2YrCancerHighEnd_Inh	9.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00029
645	ALL	573455.90	4174760.14	1.12E-07	2YrCancerHighEnd_Inh	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000328
646	ALL	573655.90	4174760.14	1.26E-07	2YrCancerHighEnd_Inh	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000368
647	ALL	573855.90	4174760.14	1.38E-07	2YrCancerHighEnd_Inh	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000404
648	ALL	574055.90	4174760.14	1.45E-07	2YrCancerHighEnd_Inh	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000424
649	ALL	574255.90	4174760.14	1.46E-07	2YrCancerHighEnd_Inh	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000425
650	ALL	574455.90	4174760.14	1.48E-07	2YrCancerHighEnd_Inh	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000432
651	ALL	574655.90	4174760.14	1.62E-07	2YrCancerHighEnd_Inh	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000474
652	ALL	574855.90	4174760.14	1.70E-07	2YrCancerHighEnd_Inh	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000496
653	ALL	575055.90	4174760.14	1.41E-07	2YrCancerHighEnd_Inh	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000412
654	ALL	575255.90	4174760.14	1.38E-07	2YrCancerHighEnd_Inh	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000404
655	ALL	575455.90	4174760.14	1.67E-07	2YrCancerHighEnd_Inh	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000488
656	ALL	575655.90	4174760.14	1.55E-07	2YrCancerHighEnd_Inh	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000453
657	ALL	575855.90	4174760.14	1.52E-07	2YrCancerHighEnd_Inh	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000444
658	ALL	576055.90	4174760.14	1.68E-07	2YrCancerHighEnd_Inh	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000492

659	ALL	576255.90	4174760.14	1.52E-07	2YrCancerHighEnd_Inh	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000443
660	ALL	576455.90	4174760.14	1.36E-07	2YrCancerHighEnd_Inh	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000397
661	ALL	576655.90	4174760.14	1.13E-07	2YrCancerHighEnd_Inh	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00033
662	ALL	576855.90	4174760.14	8.13E-08	2YrCancerHighEnd_Inh	8.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000238
663	ALL	577055.90	4174760.14	6.89E-08	2YrCancerHighEnd_Inh	6.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000201
664	ALL	577255.90	4174760.14	7.32E-08	2YrCancerHighEnd_Inh	7.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000214
665	ALL	577455.90	4174760.14	7.89E-08	2YrCancerHighEnd_Inh	7.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000231
666	ALL	573255.90	4174960.14	9.15E-08	2YrCancerHighEnd_Inh	9.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000267
667	ALL	573455.90	4174960.14	1.00E-07	2YrCancerHighEnd_Inh	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000293
668	ALL	573655.90	4174960.14	1.07E-07	2YrCancerHighEnd_Inh	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000312
669	ALL	573855.90	4174960.14	1.10E-07	2YrCancerHighEnd_Inh	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000322
670	ALL	574055.90	4174960.14	1.10E-07	2YrCancerHighEnd_Inh	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000322
671	ALL	574255.90	4174960.14	1.12E-07	2YrCancerHighEnd_Inh	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000326
672	ALL	574455.90	4174960.14	1.17E-07	2YrCancerHighEnd_Inh	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000343
673	ALL	574655.90	4174960.14	1.25E-07	2YrCancerHighEnd_Inh	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000366
674	ALL	574855.90	4174960.14	1.20E-07	2YrCancerHighEnd_Inh	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00035
675	ALL	575055.90	4174960.14	1.03E-07	2YrCancerHighEnd_Inh	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.0003
676	ALL	575255.90	4174960.14	1.02E-07	2YrCancerHighEnd_Inh	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000299
677	ALL	575455.90	4174960.14	1.23E-07	2YrCancerHighEnd_Inh	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00036
678	ALL	575655.90	4174960.14	1.19E-07	2YrCancerHighEnd_Inh	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000347
679	ALL	575855.90	4174960.14	1.10E-07	2YrCancerHighEnd_Inh	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000321
680	ALL	576055.90	4174960.14	1.20E-07	2YrCancerHighEnd_Inh	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00035
681	ALL	576255.90	4174960.14	1.23E-07	2YrCancerHighEnd_Inh	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000361
682	ALL	576455.90	4174960.14	9.66E-08	2YrCancerHighEnd_Inh	9.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000282
683	ALL	576655.90	4174960.14	7.37E-08	2YrCancerHighEnd_Inh	7.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000215
684	ALL	576855.90	4174960.14	6.07E-08	2YrCancerHighEnd_Inh	6.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000177
685	ALL	577055.90	4174960.14	4.94E-08	2YrCancerHighEnd_Inh	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000144
686	ALL	577255.90	4174960.14	5.12E-08	2YrCancerHighEnd_Inh	5.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00015
687	ALL	577455.90	4174960.14	5.76E-08	2YrCancerHighEnd_Inh	5.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000169
688	ALL	573255.90	4175160.14	8.14E-08	2YrCancerHighEnd_Inh	8.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000238
689	ALL	573455.90	4175160.14	8.53E-08	2YrCancerHighEnd_Inh	8.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000249
690	ALL	573655.90	4175160.14	8.68E-08	2YrCancerHighEnd_Inh	8.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000254
691	ALL	573855.90	4175160.14	8.62E-08	2YrCancerHighEnd_Inh	8.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000252
692	ALL	574055.90	4175160.14	8.66E-08	2YrCancerHighEnd_Inh	8.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000253
693	ALL	574255.90	4175160.14	9.08E-08	2YrCancerHighEnd_Inh	9.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000266
694	ALL	574455.90	4175160.14	9.57E-08	2YrCancerHighEnd_Inh	9.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00028
695	ALL	574655.90	4175160.14	1.00E-07	2YrCancerHighEnd_Inh	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000293
696	ALL	574855.90	4175160.14	8.68E-08	2YrCancerHighEnd_Inh	8.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000254
697	ALL	575055.90	4175160.14	7.96E-08	2YrCancerHighEnd_Inh	7.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000233
698	ALL	575255.90	4175160.14	8.07E-08	2YrCancerHighEnd_Inh	8.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000236
699	ALL	575455.90	4175160.14	9.68E-08	2YrCancerHighEnd_Inh	9.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000283
700	ALL	575655.90	4175160.14	9.38E-08	2YrCancerHighEnd_Inh	9.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000274
701	ALL	575855.90	4175160.14	8.69E-08	2YrCancerHighEnd_Inh	8.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000254
702	ALL	576055.90	4175160.14	8.65E-08	2YrCancerHighEnd_Inh	8.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000253
703	ALL	576255.90	4175160.14	9.06E-08	2YrCancerHighEnd_Inh	9.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000265
704	ALL	576455.90	4175160.14	7.37E-08	2YrCancerHighEnd_Inh	7.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000216
705	ALL	576655.90	4175160.14	5.31E-08	2YrCancerHighEnd_Inh	5.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000155
706	ALL	576855.90	4175160.14	4.20E-08	2YrCancerHighEnd_Inh	4.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000123
707	ALL	577055.90	4175160.14	3.88E-08	2YrCancerHighEnd_Inh	3.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000113
708	ALL	577255.90	4175160.14	4.11E-08	2YrCancerHighEnd_Inh	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00012
709	ALL	577455.90	4175160.14	3.73E-08	2YrCancerHighEnd_Inh	3.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000109
710	ALL	573255.90	4175360.14	6.99E-08	2YrCancerHighEnd_Inh	6.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000204
711	ALL	573455.90	4175360.14	7.04E-08	2YrCancerHighEnd_Inh	7.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000206
712	ALL	573655.90	4175360.14	6.96E-08	2YrCancerHighEnd_Inh	6.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000204
713	ALL	573855.90	4175360.14	6.95E-08	2YrCancerHighEnd_Inh	6.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000203
714	ALL	574055.90	4175360.14	7.19E-08	2YrCancerHighEnd_Inh	7.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00021
715	ALL	574255.90	4175360.14	7.65E-08	2YrCancerHighEnd_Inh	7.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000224
716	ALL	574455.90	4175360.14	7.95E-08	2YrCancerHighEnd_Inh	7.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000232
717	ALL	574655.90	4175360.14	7.88E-08	2YrCancerHighEnd_Inh	7.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00023
718	ALL	574855.90	4175360.14	6.59E-08	2YrCancerHighEnd_Inh	6.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000193
719	ALL	575055.90	4175360.14	6.35E-08	2YrCancerHighEnd_Inh	6.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000186
720	ALL	575255.90	4175360.14	6.53E-08	2YrCancerHighEnd_Inh	6.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000191
721	ALL	575455.90	4175360.14	7.82E-08	2YrCancerHighEnd_Inh	7.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000228
722	ALL	575655.90	4175360.14	7.64E-08	2YrCancerHighEnd_Inh	7.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000223
723	ALL	575855.90	4175360.14	7.16E-08	2YrCancerHighEnd_Inh	7.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000209
724	ALL	576055.90	4175360.14	6.75E-08	2YrCancerHighEnd_Inh	6.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000197

725	ALL	576255.90	4175360.14	6.87E-08	2YrCancerHighEnd_Inh	6.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000201
726	ALL	576455.90	4175360.14	5.46E-08	2YrCancerHighEnd_Inh	5.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00016
727	ALL	576655.90	4175360.14	3.63E-08	2YrCancerHighEnd_Inh	3.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000106
728	ALL	576855.90	4175360.14	3.03E-08	2YrCancerHighEnd_Inh	3.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-05
729	ALL	577055.90	4175360.14	3.11E-08	2YrCancerHighEnd_Inh	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-05
730	ALL	577255.90	4175360.14	3.27E-08	2YrCancerHighEnd_Inh	3.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-05
731	ALL	577455.90	4175360.14	2.80E-08	2YrCancerHighEnd_Inh	2.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-05
732	ALL	573255.90	4175560.14	5.85E-08	2YrCancerHighEnd_Inh	5.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000171
733	ALL	573455.90	4175560.14	5.77E-08	2YrCancerHighEnd_Inh	5.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000169
734	ALL	573655.90	4175560.14	5.73E-08	2YrCancerHighEnd_Inh	5.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000167
735	ALL	573855.90	4175560.14	5.87E-08	2YrCancerHighEnd_Inh	5.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000172
736	ALL	574055.90	4175560.14	6.10E-08	2YrCancerHighEnd_Inh	6.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000178
737	ALL	574255.90	4175560.14	6.39E-08	2YrCancerHighEnd_Inh	6.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000187
738	ALL	574455.90	4175560.14	6.71E-08	2YrCancerHighEnd_Inh	6.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000196
739	ALL	574655.90	4175560.14	6.11E-08	2YrCancerHighEnd_Inh	6.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000179
740	ALL	574855.90	4175560.14	5.28E-08	2YrCancerHighEnd_Inh	5.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000154
741	ALL	575055.90	4175560.14	5.18E-08	2YrCancerHighEnd_Inh	5.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000151
742	ALL	575255.90	4175560.14	5.38E-08	2YrCancerHighEnd_Inh	5.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000157
743	ALL	575455.90	4175560.14	6.49E-08	2YrCancerHighEnd_Inh	6.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00019
744	ALL	575655.90	4175560.14	6.32E-08	2YrCancerHighEnd_Inh	6.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000185
745	ALL	575855.90	4175560.14	5.96E-08	2YrCancerHighEnd_Inh	5.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000174
746	ALL	576055.90	4175560.14	5.52E-08	2YrCancerHighEnd_Inh	5.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000161
747	ALL	576255.90	4175560.14	4.73E-08	2YrCancerHighEnd_Inh	4.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000138
748	ALL	576455.90	4175560.14	3.21E-08	2YrCancerHighEnd_Inh	3.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-05
749	ALL	576655.90	4175560.14	2.77E-08	2YrCancerHighEnd_Inh	2.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05
750	ALL	576855.90	4175560.14	2.59E-08	2YrCancerHighEnd_Inh	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-05
751	ALL	577055.90	4175560.14	2.62E-08	2YrCancerHighEnd_Inh	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-05
752	ALL	577255.90	4175560.14	2.55E-08	2YrCancerHighEnd_Inh	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-05
753	ALL	577455.90	4175560.14	2.26E-08	2YrCancerHighEnd_Inh	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05
754	ALL	573255.90	4175760.14	4.87E-08	2YrCancerHighEnd_Inh	4.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000142
755	ALL	573455.90	4175760.14	4.82E-08	2YrCancerHighEnd_Inh	4.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000141
756	ALL	573655.90	4175760.14	4.90E-08	2YrCancerHighEnd_Inh	4.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000143
757	ALL	573855.90	4175760.14	5.11E-08	2YrCancerHighEnd_Inh	5.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000149
758	ALL	574055.90	4175760.14	5.28E-08	2YrCancerHighEnd_Inh	5.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000154
759	ALL	574255.90	4175760.14	5.48E-08	2YrCancerHighEnd_Inh	5.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00016
760	ALL	574455.90	4175760.14	5.65E-08	2YrCancerHighEnd_Inh	5.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000165
761	ALL	574655.90	4175760.14	4.77E-08	2YrCancerHighEnd_Inh	4.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000139
762	ALL	574855.90	4175760.14	4.42E-08	2YrCancerHighEnd_Inh	4.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000129
763	ALL	575055.90	4175760.14	4.31E-08	2YrCancerHighEnd_Inh	4.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000126
764	ALL	575255.90	4175760.14	4.55E-08	2YrCancerHighEnd_Inh	4.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000133
765	ALL	575455.90	4175760.14	5.48E-08	2YrCancerHighEnd_Inh	5.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00016
766	ALL	575655.90	4175760.14	5.34E-08	2YrCancerHighEnd_Inh	5.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000156
767	ALL	575855.90	4175760.14	5.02E-08	2YrCancerHighEnd_Inh	5.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000147
768	ALL	576055.90	4175760.14	4.47E-08	2YrCancerHighEnd_Inh	4.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.000131
769	ALL	576255.90	4175760.14	3.42E-08	2YrCancerHighEnd_Inh	3.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-05
770	ALL	576455.90	4175760.14	2.93E-08	2YrCancerHighEnd_Inh	2.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-05
771	ALL	576655.90	4175760.14	2.45E-08	2YrCancerHighEnd_Inh	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-05
772	ALL	576855.90	4175760.14	2.32E-08	2YrCancerHighEnd_Inh	2.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05
773	ALL	577055.90	4175760.14	2.62E-08	2YrCancerHighEnd_Inh	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05
774	ALL	577255.90	4175760.14	2.33E-08	2YrCancerHighEnd_Inh	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-05
775	ALL	577455.90	4175760.14	2.34E-08	2YrCancerHighEnd_Inh	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-05

Chronic HI

Chronic non-cancer hazard index was estimated by dividing the annual DPM concentration (as $PM_{2.5}$ exhaust) by the DPM REL of 5 $\mu g/m^3$.

REC	GRP	X	Y	CONC	Chronic HI
1	ALL	575452	4173363	0.018894	0.003779
2	ALL	575460.2	4173353	0.017912	0.003582
3	ALL	575463.2	4173341	0.016614	0.003323
4	ALL	575419.1	4173346	0.015736	0.003147
5	ALL	575425	4173332	0.014555	0.002911
6	ALL	575431.2	4173321	0.013726	0.002745
7	ALL	575462.3	4173327	0.015195	0.003039
8	ALL	575477	4173334	0.016134	0.003227
9	ALL	575486.4	4173316	0.014671	0.002934
10	ALL	575452	4173363	0.018894	0.003779
11	ALL	575502.6	4173305	0.013898	0.00278
12	ALL	575524	4173286	0.012721	0.002544
13	ALL	575288.3	4173408	0.021301	0.00426
14	ALL	575278.1	4173404	0.020661	0.004132
15	ALL	575260.4	4173400	0.020368	0.004074
16	ALL	575260.4	4173386	0.018263	0.003653
17	ALL	575269.1	4173377	0.017017	0.003403
18	ALL	575294.8	4173366	0.015514	0.003103
19	ALL	575304.2	4173351	0.01397	0.002794
20	ALL	575312.7	4173336	0.012646	0.002529
21	ALL	575318.6	4173323	0.011716	0.002343
22	ALL	575328	4173305	0.010585	0.002117
23	ALL	575221.8	4173370	0.016783	0.003357
24	ALL	575205.7	4173381	0.018079	0.003616
25	ALL	575188	4173381	0.018119	0.003624
26	ALL	575226.5	4173353	0.014989	0.002998
27	ALL	575173.8	4173366	0.016348	0.00327
28	ALL	575908.4	4173218	0.006167	0.001233
29	ALL	575908.4	4173200	0.005881	0.001176
30	ALL	575933.6	4173216	0.005969	0.001194
31	ALL	575452	4173363	0.018894	0.003779
32	ALL	575950.1	4173215	0.005854	0.001171
33	ALL	575965.8	4173216	0.005775	0.001155
34	ALL	575948.1	4173173	0.005255	0.001051
35	ALL	575909.4	4173167	0.005417	0.001083
36	ALL	575909.6	4173182	0.00561	0.001122
37	ALL	576034.6	4173324	0.006721	0.001344
38	ALL	576029.7	4173307	0.006614	0.001323
39	ALL	575452	4173363	0.018894	0.003779
40	ALL	576041	4173266	0.006026	0.001205
41	ALL	576030.6	4173282	0.006311	0.001262
42	ALL	575658.6	4173750	0.01755	0.00351
43	ALL	575689.2	4173784	0.013074	0.002615
44	ALL	575701.6	4173739	0.015506	0.003101
45	ALL	575718.6	4173758	0.013354	0.002671
46	ALL	575716.7	4173696	0.017033	0.003407
47	ALL	575739.2	4173684	0.01596	0.003192
48	ALL	575778.6	4173639	0.014876	0.002975
49	ALL	575785.1	4173666	0.013699	0.00274
50	ALL	575803.6	4173625	0.013712	0.002742

51	ALL	575695.9	4173804	0.011543	0.002309
52	ALL	575710.2	4173832	0.009538	0.001908
53	ALL	575719.4	4173819	0.009953	0.001991
54	ALL	575452	4173363	0.018894	0.003779
55	ALL	575630.3	4173799	0.014439	0.002888
56	ALL	575615.4	4173812	0.013624	0.002725
57	ALL	575600.4	4173827	0.012626	0.002525
58	ALL	575616.6	4173781	0.017123	0.003425
59	ALL	575663	4173834	0.010467	0.002093
60	ALL	575655.2	4173841	0.010159	0.002032
61	ALL	575642	4173852	0.009642	0.001928
62	ALL	575680.1	4173851	0.009051	0.00181
63	ALL	575452	4173363	0.018894	0.003779
64	ALL	575521.2	4173991	0.004401	0.00088
65	ALL	575535.3	4173974	0.004806	0.000961
66	ALL	575527.5	4174009	0.003987	0.000797
67	ALL	575539.9	4174022	0.003704	0.000741
68	ALL	575551.3	4173967	0.004972	0.000994
69	ALL	575563.1	4173954	0.005299	0.00106
70	ALL	575204	4174126	0.002152	0.00043
71	ALL	575214.8	4174136	0.002046	0.000409
72	ALL	575199.5	4174148	0.00197	0.000394
73	ALL	575189.3	4174163	0.001871	0.000374
74	ALL	575255.9	4173560	0.094198	0.01884
75	ALL	575275.9	4173560	0.113187	0.022637
76	ALL	575295.9	4173560	0.13865	0.02773
77	ALL	575315.9	4173560	0.174894	0.034979
78	ALL	575335.9	4173560	0.224497	0.044899
79	ALL	575355.9	4173560	0.275863	0.055173
80	ALL	575375.9	4173560	0.264359	0.052872
81	ALL	575395.9	4173560	0.231456	0.046291
82	ALL	575415.9	4173560	0.196996	0.039399
83	ALL	575255.9	4173580	0.112224	0.022445
84	ALL	575275.9	4173580	0.142369	0.028474
85	ALL	575295.9	4173580	0.188274	0.037655
86	ALL	575315.9	4173580	0.266327	0.053265
87	ALL	575335.9	4173580	0.420983	0.084197
88	ALL	575355.9	4173580	0.564794	0.112959
89	ALL	575375.9	4173580	0.545772	0.109154
90	ALL	575395.9	4173580	0.412957	0.082591
91	ALL	575415.9	4173580	0.305729	0.061146
92	ALL	575255.9	4173600	0.133129	0.026626
93	ALL	575275.9	4173600	0.181148	0.03623
94	ALL	575295.9	4173600	0.263202	0.05264
95	ALL	575315.9	4173600	0.422688	0.084538
96	ALL	575335.9	4173600	0.6512	0.13024
97	ALL	575355.9	4173600	0.718759	0.143752
98	ALL	575375.9	4173600	0.736171	0.147234
99	ALL	575395.9	4173600	0.649314	0.129863
100	ALL	575415.9	4173600	0.479883	0.095977
101	ALL	575255.9	4173620	0.157094	0.031419
102	ALL	575275.9	4173620	0.236764	0.047353
103	ALL	575295.9	4173620	0.389814	0.077963

104	ALL	575315.9	4173620	0.617829	0.123566
105	ALL	575335.9	4173620	0.737869	0.147574
106	ALL	575355.9	4173620	0.77505	0.15501
107	ALL	575375.9	4173620	0.748538	0.149708
108	ALL	575395.9	4173620	0.653965	0.130793
109	ALL	575415.9	4173620	0.444301	0.08886
110	ALL	575255.9	4173640	0.179802	0.03596
111	ALL	575275.9	4173640	0.315809	0.063162
112	ALL	575295.9	4173640	0.549375	0.109875
113	ALL	575315.9	4173640	0.690919	0.138184
114	ALL	575335.9	4173640	0.755792	0.151158
115	ALL	575355.9	4173640	0.767703	0.153541
116	ALL	575375.9	4173640	0.711982	0.142396
117	ALL	575395.9	4173640	0.576915	0.115383
118	ALL	575415.9	4173640	0.355589	0.071118
119	ALL	575255.9	4173660	0.168193	0.033639
120	ALL	575275.9	4173660	0.363559	0.072712
121	ALL	575295.9	4173660	0.548392	0.109678
122	ALL	575315.9	4173660	0.664401	0.13288
123	ALL	575335.9	4173660	0.723157	0.144631
124	ALL	575355.9	4173660	0.714202	0.14284
125	ALL	575375.9	4173660	0.632152	0.12643
126	ALL	575395.9	4173660	0.432018	0.086404
127	ALL	575415.9	4173660	0.278953	0.055791
128	ALL	575255.9	4173680	0.126135	0.025227
129	ALL	575275.9	4173680	0.209103	0.041821
130	ALL	575295.9	4173680	0.355293	0.071059
131	ALL	575315.9	4173680	0.558307	0.111661
132	ALL	575335.9	4173680	0.63255	0.12651
133	ALL	575355.9	4173680	0.623979	0.124796
134	ALL	575375.9	4173680	0.515303	0.103061
135	ALL	575395.9	4173680	0.313037	0.062607
136	ALL	575415.9	4173680	0.213089	0.042618
137	ALL	575255.9	4173700	0.092325	0.018465
138	ALL	575275.9	4173700	0.153054	0.030611
139	ALL	575295.9	4173700	0.299564	0.059913
140	ALL	575315.9	4173700	0.460069	0.092014
141	ALL	575335.9	4173700	0.52703	0.105406
142	ALL	575355.9	4173700	0.503658	0.100732
143	ALL	575375.9	4173700	0.339002	0.0678
144	ALL	575395.9	4173700	0.218134	0.043627
145	ALL	575415.9	4173700	0.156184	0.031237
146	ALL	575255.9	4173720	0.067604	0.013521
147	ALL	575275.9	4173720	0.096735	0.019347
148	ALL	575295.9	4173720	0.150132	0.030026
149	ALL	575315.9	4173720	0.238722	0.047744
150	ALL	575335.9	4173720	0.346634	0.069327
151	ALL	575355.9	4173720	0.327849	0.06557
152	ALL	575375.9	4173720	0.200419	0.040084
153	ALL	575395.9	4173720	0.141862	0.028372
154	ALL	575415.9	4173720	0.108921	0.021784
155	ALL	575255.9	4173740	0.049213	0.009843
156	ALL	575275.9	4173740	0.061575	0.012315

157	ALL	575295.9	4173740	0.078034	0.015607
158	ALL	575315.9	4173740	0.099348	0.01987
159	ALL	575335.9	4173740	0.12051	0.024102
160	ALL	575355.9	4173740	0.123757	0.024751
161	ALL	575375.9	4173740	0.104479	0.020896
162	ALL	575395.9	4173740	0.086852	0.01737
163	ALL	575415.9	4173740	0.073187	0.014637
164	ALL	575055.9	4173360	0.013954	0.002791
165	ALL	575105.9	4173360	0.015075	0.003015
166	ALL	575155.9	4173360	0.015722	0.003144
167	ALL	575205.9	4173360	0.015775	0.003155
168	ALL	575255.9	4173360	0.015344	0.003069
169	ALL	575305.9	4173360	0.014805	0.002961
170	ALL	575355.9	4173360	0.01513	0.003026
171	ALL	575405.9	4173360	0.016864	0.003373
172	ALL	575455.9	4173360	0.018677	0.003735
173	ALL	575505.9	4173360	0.01911	0.003822
174	ALL	575555.9	4173360	0.018021	0.003604
175	ALL	575605.9	4173360	0.01627	0.003254
176	ALL	575055.9	4173410	0.016635	0.003327
177	ALL	575105.9	4173410	0.019179	0.003836
178	ALL	575155.9	4173410	0.021195	0.004239
179	ALL	575205.9	4173410	0.022216	0.004443
180	ALL	575255.9	4173410	0.022088	0.004418
181	ALL	575305.9	4173410	0.021428	0.004286
182	ALL	575355.9	4173410	0.022177	0.004435
183	ALL	575405.9	4173410	0.025128	0.005026
184	ALL	575455.9	4173410	0.027121	0.005424
185	ALL	575505.9	4173410	0.026179	0.005236
186	ALL	575555.9	4173410	0.023478	0.004696
187	ALL	575605.9	4173410	0.020631	0.004126
188	ALL	575055.9	4173460	0.018556	0.003711
189	ALL	575105.9	4173460	0.023268	0.004654
190	ALL	575155.9	4173460	0.028222	0.005644
191	ALL	575205.9	4173460	0.032472	0.006494
192	ALL	575255.9	4173460	0.034522	0.006904
193	ALL	575305.9	4173460	0.034404	0.006881
194	ALL	575355.9	4173460	0.036326	0.007265
195	ALL	575405.9	4173460	0.041201	0.00824
196	ALL	575455.9	4173460	0.041788	0.008358
197	ALL	575505.9	4173460	0.037266	0.007453
198	ALL	575555.9	4173460	0.031821	0.006364
199	ALL	575605.9	4173460	0.027173	0.005435
200	ALL	575055.9	4173510	0.018864	0.003773
201	ALL	575105.9	4173510	0.025848	0.00517
202	ALL	575155.9	4173510	0.035152	0.00703
203	ALL	575205.9	4173510	0.046428	0.009286
204	ALL	575255.9	4173510	0.058001	0.0116
205	ALL	575305.9	4173510	0.065847	0.013169
206	ALL	575355.9	4173510	0.073089	0.014618
207	ALL	575405.9	4173510	0.07965	0.01593
208	ALL	575455.9	4173510	0.071175	0.014235
209	ALL	575505.9	4173510	0.056675	0.011335

210	ALL	575555.9	4173510	0.044473	0.008895
211	ALL	575605.9	4173510	0.035065	0.007013
212	ALL	575055.9	4173560	0.017335	0.003467
213	ALL	575105.9	4173560	0.025312	0.005062
214	ALL	575155.9	4173560	0.038786	0.007757
215	ALL	575205.9	4173560	0.060653	0.012131
216	ALL	575455.9	4173560	0.133687	0.026737
217	ALL	575505.9	4173560	0.084308	0.016862
218	ALL	575555.9	4173560	0.056916	0.011383
219	ALL	575605.9	4173560	0.040515	0.008103
220	ALL	575055.9	4173610	0.014835	0.002967
221	ALL	575105.9	4173610	0.021897	0.004379
222	ALL	575155.9	4173610	0.035755	0.007151
223	ALL	575205.9	4173610	0.067229	0.013446
224	ALL	575455.9	4173610	0.193813	0.038763
225	ALL	575505.9	4173610	0.098145	0.019629
226	ALL	575555.9	4173610	0.060011	0.012002
227	ALL	575605.9	4173610	0.040541	0.008108
228	ALL	575055.9	4173660	0.012609	0.002522
229	ALL	575105.9	4173660	0.018175	0.003635
230	ALL	575155.9	4173660	0.029016	0.005803
231	ALL	575205.9	4173660	0.055604	0.011121
232	ALL	575455.9	4173660	0.146843	0.029369
233	ALL	575505.9	4173660	0.081737	0.016347
234	ALL	575555.9	4173660	0.051919	0.010384
235	ALL	575605.9	4173660	0.035673	0.007135
236	ALL	575055.9	4173710	0.011118	0.002224
237	ALL	575105.9	4173710	0.015511	0.003102
238	ALL	575155.9	4173710	0.023262	0.004652
239	ALL	575205.9	4173710	0.038716	0.007743
240	ALL	575455.9	4173710	0.083235	0.016647
241	ALL	575505.9	4173710	0.054238	0.010848
242	ALL	575555.9	4173710	0.038224	0.007645
243	ALL	575605.9	4173710	0.028217	0.005643
244	ALL	575055.9	4173760	0.009915	0.001983
245	ALL	575105.9	4173760	0.013144	0.002629
246	ALL	575155.9	4173760	0.017868	0.003574
247	ALL	575205.9	4173760	0.025152	0.00503
248	ALL	575255.9	4173760	0.036047	0.007209
249	ALL	575305.9	4173760	0.0501	0.01002
250	ALL	575355.9	4173760	0.058365	0.011673
251	ALL	575405.9	4173760	0.05128	0.010256
252	ALL	575455.9	4173760	0.040422	0.008084
253	ALL	575505.9	4173760	0.031816	0.006363
254	ALL	575555.9	4173760	0.025329	0.005066
255	ALL	575605.9	4173760	0.020586	0.004117
256	ALL	575055.9	4173810	0.008511	0.001702
257	ALL	575105.9	4173810	0.010481	0.002096
258	ALL	575155.9	4173810	0.012854	0.002571
259	ALL	575205.9	4173810	0.015592	0.003118
260	ALL	575255.9	4173810	0.018187	0.003637
261	ALL	575305.9	4173810	0.020158	0.004032
262	ALL	575355.9	4173810	0.021709	0.004342

263	ALL	575405.9	4173810	0.021452	0.00429
264	ALL	575455.9	4173810	0.020103	0.004021
265	ALL	575505.9	4173810	0.018163	0.003633
266	ALL	575555.9	4173810	0.016141	0.003228
267	ALL	575605.9	4173810	0.014191	0.002838
268	ALL	575055.9	4173860	0.006916	0.001383
269	ALL	575105.9	4173860	0.007931	0.001586
270	ALL	575155.9	4173860	0.009002	0.0018
271	ALL	575205.9	4173860	0.010039	0.002008
272	ALL	575255.9	4173860	0.01074	0.002148
273	ALL	575305.9	4173860	0.011252	0.00225
274	ALL	575355.9	4173860	0.011895	0.002379
275	ALL	575405.9	4173860	0.012054	0.002411
276	ALL	575455.9	4173860	0.011615	0.002323
277	ALL	575505.9	4173860	0.011062	0.002212
278	ALL	575555.9	4173860	0.010391	0.002078
279	ALL	575605.9	4173860	0.009644	0.001929
280	ALL	575055.9	4173910	0.005434	0.001087
281	ALL	575105.9	4173910	0.005944	0.001189
282	ALL	575155.9	4173910	0.006476	0.001295
283	ALL	575205.9	4173910	0.006918	0.001384
284	ALL	575255.9	4173910	0.007095	0.001419
285	ALL	575305.9	4173910	0.007205	0.001441
286	ALL	575355.9	4173910	0.007598	0.00152
287	ALL	575405.9	4173910	0.007809	0.001562
288	ALL	575455.9	4173910	0.007664	0.001533
289	ALL	575505.9	4173910	0.00739	0.001478
290	ALL	575555.9	4173910	0.007075	0.001415
291	ALL	575605.9	4173910	0.006733	0.001347
292	ALL	575055.9	4173960	0.004255	0.000851
293	ALL	575105.9	4173960	0.004556	0.000911
294	ALL	575155.9	4173960	0.004858	0.000972
295	ALL	575205.9	4173960	0.00505	0.00101
296	ALL	575255.9	4173960	0.005073	0.001015
297	ALL	575305.9	4173960	0.005049	0.00101
298	ALL	575355.9	4173960	0.005327	0.001065
299	ALL	575405.9	4173960	0.005531	0.001106
300	ALL	575455.9	4173960	0.005486	0.001097
301	ALL	575505.9	4173960	0.005308	0.001062
302	ALL	575555.9	4173960	0.005146	0.001029
303	ALL	575605.9	4173960	0.004941	0.000988
304	ALL	573255.9	4171560	0.000495	9.90E-05
305	ALL	573455.9	4171560	0.000495	9.89E-05
306	ALL	573655.9	4171560	0.000504	0.000101
307	ALL	573855.9	4171560	0.000521	0.000104
308	ALL	574055.9	4171560	0.000534	0.000107
309	ALL	574255.9	4171560	0.000532	0.000106
310	ALL	574455.9	4171560	0.000521	0.000104
311	ALL	574655.9	4171560	0.000503	0.000101
312	ALL	574855.9	4171560	0.000473	9.46E-05
313	ALL	575055.9	4171560	0.000452	9.04E-05
314	ALL	575255.9	4171560	0.000427	8.54E-05
315	ALL	575455.9	4171560	0.000415	8.30E-05

316	ALL	575655.9	4171560	0.000449	8.99E-05
317	ALL	575855.9	4171560	0.000507	0.000101
318	ALL	576055.9	4171560	0.00056	0.000112
319	ALL	576255.9	4171560	0.000609	0.000122
320	ALL	576455.9	4171560	0.000643	0.000129
321	ALL	576655.9	4171560	0.00064	0.000128
322	ALL	576855.9	4171560	0.000605	0.000121
323	ALL	577055.9	4171560	0.000558	0.000112
324	ALL	577255.9	4171560	0.000512	0.000102
325	ALL	577455.9	4171560	0.000472	9.45E-05
326	ALL	573255.9	4171760	0.00058	0.000116
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328	ALL	573655.9	4171760	0.00059	0.000118
329	ALL	573855.9	4171760	0.000601	0.00012
330	ALL	574055.9	4171760	0.000623	0.000125
331	ALL	574255.9	4171760	0.000633	0.000127
332	ALL	574455.9	4171760	0.000623	0.000125
333	ALL	574655.9	4171760	0.000605	0.000121
334	ALL	574855.9	4171760	0.00057	0.000114
335	ALL	575055.9	4171760	0.00054	0.000108
336	ALL	575255.9	4171760	0.000509	0.000102
337	ALL	575455.9	4171760	0.000496	9.92E-05
338	ALL	575655.9	4171760	0.000545	0.000109
339	ALL	575855.9	4171760	0.00062	0.000124
340	ALL	576055.9	4171760	0.000688	0.000138
341	ALL	576255.9	4171760	0.000744	0.000149
342	ALL	576455.9	4171760	0.000763	0.000153
343	ALL	576655.9	4171760	0.000732	0.000146
344	ALL	576855.9	4171760	0.000673	0.000135
345	ALL	577055.9	4171760	0.000613	0.000123
346	ALL	577255.9	4171760	0.00056	0.000112
347	ALL	577455.9	4171760	0.000515	0.000103
348	ALL	573255.9	4171960	0.000661	0.000132
349	ALL	573455.9	4171960	0.000696	0.000139
350	ALL	573655.9	4171960	0.000709	0.000142
351	ALL	573855.9	4171960	0.000714	0.000143
352	ALL	574055.9	4171960	0.000732	0.000146
353	ALL	574255.9	4171960	0.000757	0.000151
354	ALL	574455.9	4171960	0.000761	0.000152
355	ALL	574655.9	4171960	0.000742	0.000148
356	ALL	574855.9	4171960	0.000704	0.000141
357	ALL	575055.9	4171960	0.000659	0.000132
358	ALL	575255.9	4171960	0.000619	0.000124
359	ALL	575455.9	4171960	0.000605	0.000121
360	ALL	575655.9	4171960	0.000678	0.000136
361	ALL	575855.9	4171960	0.000777	0.000155
362	ALL	576055.9	4171960	0.000863	0.000173
363	ALL	576255.9	4171960	0.000917	0.000183
364	ALL	576455.9	4171960	0.0009	0.00018
365	ALL	576655.9	4171960	0.000829	0.000166
366	ALL	576855.9	4171960	0.000748	0.00015
367	ALL	577055.9	4171960	0.000676	0.000135
368	ALL	577255.9	4171960	0.000617	0.000123

369	ALL	577455.9	4171960	0.000569	0.000114
370	ALL	573255.9	4172160	0.000714	0.000143
371	ALL	573455.9	4172160	0.000796	0.000159
372	ALL	573655.9	4172160	0.000852	0.00017
373	ALL	573855.9	4172160	0.000876	0.000175
374	ALL	574055.9	4172160	0.000886	0.000177
375	ALL	574255.9	4172160	0.000915	0.000183
376	ALL	574455.9	4172160	0.000942	0.000188
377	ALL	574655.9	4172160	0.000931	0.000186
378	ALL	574855.9	4172160	0.00089	0.000178
379	ALL	575055.9	4172160	0.000826	0.000165
380	ALL	575255.9	4172160	0.000772	0.000154
381	ALL	575455.9	4172160	0.000759	0.000152
382	ALL	575655.9	4172160	0.00087	0.000174
383	ALL	575855.9	4172160	0.001002	0.0002
384	ALL	576055.9	4172160	0.001108	0.000222
385	ALL	576255.9	4172160	0.001129	0.000226
386	ALL	576455.9	4172160	0.00105	0.00021
387	ALL	576655.9	4172160	0.000939	0.000188
388	ALL	576855.9	4172160	0.000837	0.000167
389	ALL	577055.9	4172160	0.000756	0.000151
390	ALL	577255.9	4172160	0.000693	0.000139
391	ALL	577455.9	4172160	0.000651	0.00013
392	ALL	573255.9	4172360	0.000721	0.000144
393	ALL	573455.9	4172360	0.000851	0.00017
394	ALL	573655.9	4172360	0.000977	0.000195
395	ALL	573855.9	4172360	0.001074	0.000215
396	ALL	574055.9	4172360	0.001118	0.000224
397	ALL	574255.9	4172360	0.00114	0.000228
398	ALL	574455.9	4172360	0.001182	0.000236
399	ALL	574655.9	4172360	0.001201	0.00024
400	ALL	574855.9	4172360	0.001161	0.000232
401	ALL	575055.9	4172360	0.001075	0.000215
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403	ALL	575455.9	4172360	0.000988	0.000198
404	ALL	575655.9	4172360	0.001158	0.000232
405	ALL	575855.9	4172360	0.001343	0.000269
406	ALL	576055.9	4172360	0.001445	0.000289
407	ALL	576255.9	4172360	0.001377	0.000275
408	ALL	576455.9	4172360	0.001219	0.000244
409	ALL	576655.9	4172360	0.00107	0.000214
410	ALL	576855.9	4172360	0.000953	0.000191
411	ALL	577055.9	4172360	0.00087	0.000174
412	ALL	577255.9	4172360	0.000821	0.000164
413	ALL	577455.9	4172360	0.000793	0.000159
414	ALL	573255.9	4172560	0.000686	0.000137
415	ALL	573455.9	4172560	0.000838	0.000168
416	ALL	573655.9	4172560	0.001026	0.000205
417	ALL	573855.9	4172560	0.00123	0.000246
418	ALL	574055.9	4172560	0.001399	0.00028
419	ALL	574255.9	4172560	0.001483	0.000297
420	ALL	574455.9	4172560	0.001531	0.000306
421	ALL	574655.9	4172560	0.00159	0.000318

422	ALL	574855.9	4172560	0.001578	0.000316
423	ALL	575055.9	4172560	0.001468	0.000294
424	ALL	575255.9	4172560	0.00134	0.000268
425	ALL	575455.9	4172560	0.001348	0.00027
426	ALL	575655.9	4172560	0.001628	0.000326
427	ALL	575855.9	4172560	0.001877	0.000375
428	ALL	576055.9	4172560	0.001883	0.000377
429	ALL	576255.9	4172560	0.001662	0.000332
430	ALL	576455.9	4172560	0.001427	0.000285
431	ALL	576655.9	4172560	0.001251	0.00025
432	ALL	576855.9	4172560	0.001139	0.000228
433	ALL	577055.9	4172560	0.001077	0.000215
434	ALL	577255.9	4172560	0.001025	0.000205
435	ALL	577455.9	4172560	0.000953	0.000191
436	ALL	573255.9	4172760	0.000639	0.000128
437	ALL	573455.9	4172760	0.000783	0.000157
438	ALL	573655.9	4172760	0.000981	0.000196
439	ALL	573855.9	4172760	0.001254	0.000251
440	ALL	574055.9	4172760	0.00159	0.000318
441	ALL	574255.9	4172760	0.001911	0.000382
442	ALL	574455.9	4172760	0.002093	0.000419
443	ALL	574655.9	4172760	0.002189	0.000438
444	ALL	574855.9	4172760	0.002251	0.00045
445	ALL	575055.9	4172760	0.002137	0.000427
446	ALL	575255.9	4172760	0.001926	0.000385
447	ALL	575455.9	4172760	0.001975	0.000395
448	ALL	575655.9	4172760	0.002461	0.000492
449	ALL	575855.9	4172760	0.002707	0.000541
450	ALL	576055.9	4172760	0.002423	0.000485
451	ALL	576255.9	4172760	0.002023	0.000405
452	ALL	576455.9	4172760	0.001739	0.000348
453	ALL	576655.9	4172760	0.00158	0.000316
454	ALL	576855.9	4172760	0.001476	0.000295
455	ALL	577055.9	4172760	0.001348	0.00027
456	ALL	577255.9	4172760	0.001187	0.000237
457	ALL	577455.9	4172760	0.001023	0.000205
458	ALL	573255.9	4172960	0.000592	0.000118
459	ALL	573455.9	4172960	0.000722	0.000144
460	ALL	573655.9	4172960	0.000901	0.00018
461	ALL	573855.9	4172960	0.00116	0.000232
462	ALL	574055.9	4172960	0.001549	0.00031
463	ALL	574255.9	4172960	0.002117	0.000423
464	ALL	574455.9	4172960	0.00278	0.000556
465	ALL	574655.9	4172960	0.003232	0.000646
466	ALL	574855.9	4172960	0.003432	0.000686
467	ALL	575055.9	4172960	0.003409	0.000682
468	ALL	575255.9	4172960	0.00304	0.000608
469	ALL	575455.9	4172960	0.003222	0.000644
470	ALL	575655.9	4172960	0.004092	0.000818
471	ALL	575855.9	4172960	0.003903	0.000781
472	ALL	576055.9	4172960	0.003143	0.000629
473	ALL	576255.9	4172960	0.002639	0.000528
474	ALL	576455.9	4172960	0.002368	0.000474

475	ALL	576655.9	4172960	0.002099	0.00042
476	ALL	576855.9	4172960	0.001777	0.000355
477	ALL	577055.9	4172960	0.001466	0.000293
478	ALL	577255.9	4172960	0.001209	0.000242
479	ALL	577455.9	4172960	0.001005	0.000201
480	ALL	573255.9	4173160	0.000529	0.000106
481	ALL	573455.9	4173160	0.000646	0.000129
482	ALL	573655.9	4173160	0.000809	0.000162
483	ALL	573855.9	4173160	0.00104	0.000208
484	ALL	574055.9	4173160	0.001389	0.000278
485	ALL	574255.9	4173160	0.001948	0.00039
486	ALL	574455.9	4173160	0.002919	0.000584
487	ALL	574655.9	4173160	0.004404	0.000881
488	ALL	574855.9	4173160	0.00576	0.001152
489	ALL	575055.9	4173160	0.006269	0.001254
490	ALL	575255.9	4173160	0.005689	0.001138
491	ALL	575455.9	4173160	0.006377	0.001275
492	ALL	575655.9	4173160	0.007406	0.001481
493	ALL	575855.9	4173160	0.005713	0.001143
494	ALL	576055.9	4173160	0.004613	0.000923
495	ALL	576255.9	4173160	0.003856	0.000771
496	ALL	576455.9	4173160	0.003036	0.000607
497	ALL	576655.9	4173160	0.002327	0.000465
498	ALL	576855.9	4173160	0.001802	0.00036
499	ALL	577055.9	4173160	0.001427	0.000285
500	ALL	577255.9	4173160	0.001158	0.000232
501	ALL	577455.9	4173160	0.00096	0.000192
502	ALL	573255.9	4173360	0.000454	9.09E-05
503	ALL	573455.9	4173360	0.000552	0.00011
504	ALL	573655.9	4173360	0.000688	0.000138
505	ALL	573855.9	4173360	0.000882	0.000176
506	ALL	574055.9	4173360	0.001174	0.000235
507	ALL	574255.9	4173360	0.001652	0.00033
508	ALL	574455.9	4173360	0.002483	0.000497
509	ALL	574655.9	4173360	0.004154	0.000831
510	ALL	574855.9	4173360	0.00795	0.00159
511	ALL	575655.9	4173360	0.014589	0.002918
512	ALL	575855.9	4173360	0.010131	0.002026
513	ALL	576055.9	4173360	0.006682	0.001336
514	ALL	576255.9	4173360	0.004398	0.00088
515	ALL	576455.9	4173360	0.003047	0.000609
516	ALL	576655.9	4173360	0.00223	0.000446
517	ALL	576855.9	4173360	0.001705	0.000341
518	ALL	577055.9	4173360	0.001349	0.00027
519	ALL	577255.9	4173360	0.001097	0.000219
520	ALL	577455.9	4173360	0.000912	0.000182
521	ALL	573255.9	4173560	0.000391	7.82E-05
522	ALL	573455.9	4173560	0.000468	9.36E-05
523	ALL	573655.9	4173560	0.000572	0.000114
524	ALL	573855.9	4173560	0.000719	0.000144
525	ALL	574055.9	4173560	0.000936	0.000187
526	ALL	574255.9	4173560	0.001279	0.000256
527	ALL	574455.9	4173560	0.001872	0.000374

528	ALL	574655.9	4173560	0.003047	0.000609
529	ALL	574855.9	4173560	0.005966	0.001193
530	ALL	575655.9	4173560	0.030036	0.006007
531	ALL	575855.9	4173560	0.012031	0.002406
532	ALL	576055.9	4173560	0.006408	0.001282
533	ALL	576255.9	4173560	0.004016	0.000803
534	ALL	576455.9	4173560	0.002768	0.000554
535	ALL	576655.9	4173560	0.002035	0.000407
536	ALL	576855.9	4173560	0.001567	0.000313
537	ALL	577055.9	4173560	0.001249	0.00025
538	ALL	577255.9	4173560	0.001023	0.000205
539	ALL	577455.9	4173560	0.000855	0.000171
540	ALL	573255.9	4173760	0.000354	7.08E-05
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543	ALL	573855.9	4173760	0.000627	0.000125
544	ALL	574055.9	4173760	0.000802	0.00016
545	ALL	574255.9	4173760	0.001068	0.000214
546	ALL	574455.9	4173760	0.001511	0.000302
547	ALL	574655.9	4173760	0.002336	0.000467
548	ALL	574855.9	4173760	0.004191	0.000838
549	ALL	575655.9	4173760	0.016826	0.003365
550	ALL	575855.9	4173760	0.008396	0.001679
551	ALL	576055.9	4173760	0.004972	0.000994
552	ALL	576255.9	4173760	0.003308	0.000662
553	ALL	576455.9	4173760	0.002368	0.000474
554	ALL	576655.9	4173760	0.001788	0.000358
555	ALL	576855.9	4173760	0.001403	0.000281
556	ALL	577055.9	4173760	0.001135	0.000227
557	ALL	577255.9	4173760	0.000938	0.000188
558	ALL	577455.9	4173760	0.00079	0.000158
559	ALL	573255.9	4173960	0.00034	6.79E-05
560	ALL	573455.9	4173960	0.000402	8.05E-05
561	ALL	573655.9	4173960	0.000486	9.73E-05
562	ALL	573855.9	4173960	0.000601	0.00012
563	ALL	574055.9	4173960	0.000766	0.000153
564	ALL	574255.9	4173960	0.001011	0.000202
565	ALL	574455.9	4173960	0.001394	0.000279
566	ALL	574655.9	4173960	0.002032	0.000406
567	ALL	574855.9	4173960	0.00309	0.000618
568	ALL	575655.9	4173960	0.004733	0.000947
569	ALL	575855.9	4173960	0.003993	0.000799
570	ALL	576055.9	4173960	0.003111	0.000622
571	ALL	576255.9	4173960	0.002372	0.000474
572	ALL	576455.9	4173960	0.001847	0.000369
573	ALL	576655.9	4173960	0.001474	0.000295
574	ALL	576855.9	4173960	0.001202	0.00024
575	ALL	577055.9	4173960	0.000997	0.000199
576	ALL	577255.9	4173960	0.000841	0.000168
577	ALL	577455.9	4173960	0.000689	0.000138
578	ALL	573255.9	4174160	0.000336	6.72E-05
579	ALL	573455.9	4174160	0.000397	7.93E-05
580	ALL	573655.9	4174160	0.000475	9.51E-05

581	ALL	573855.9	4174160	0.000579	0.000116
582	ALL	574055.9	4174160	0.000719	0.000144
583	ALL	574255.9	4174160	0.000914	0.000183
584	ALL	574455.9	4174160	0.001185	0.000237
585	ALL	574655.9	4174160	0.001493	0.000299
586	ALL	574855.9	4174160	0.0017	0.00034
587	ALL	575055.9	4174160	0.001965	0.000393
588	ALL	575255.9	4174160	0.001839	0.000368
589	ALL	575455.9	4174160	0.002057	0.000411
590	ALL	575655.9	4174160	0.002001	0.0004
591	ALL	575855.9	4174160	0.001724	0.000345
592	ALL	576055.9	4174160	0.001636	0.000327
593	ALL	576255.9	4174160	0.001531	0.000306
594	ALL	576455.9	4174160	0.001331	0.000266
595	ALL	576655.9	4174160	0.001132	0.000226
596	ALL	576855.9	4174160	0.000945	0.000189
597	ALL	577055.9	4174160	0.000769	0.000154
598	ALL	577255.9	4174160	0.000609	0.000122
599	ALL	577455.9	4174160	0.000549	0.00011
600	ALL	573255.9	4174360	0.000327	6.54E-05
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602	ALL	573655.9	4174360	0.000448	8.95E-05
603	ALL	573855.9	4174360	0.000534	0.000107
604	ALL	574055.9	4174360	0.000644	0.000129
605	ALL	574255.9	4174360	0.000774	0.000155
606	ALL	574455.9	4174360	0.000885	0.000177
607	ALL	574655.9	4174360	0.000939	0.000188
608	ALL	574855.9	4174360	0.001032	0.000206
609	ALL	575055.9	4174360	0.001066	0.000213
610	ALL	575255.9	4174360	0.000934	0.000187
611	ALL	575455.9	4174360	0.001101	0.00022
612	ALL	575655.9	4174360	0.001018	0.000204
613	ALL	575855.9	4174360	0.001055	0.000211
614	ALL	576055.9	4174360	0.000957	0.000191
615	ALL	576255.9	4174360	0.000917	0.000183
616	ALL	576455.9	4174360	0.000889	0.000178
617	ALL	576655.9	4174360	0.000806	0.000161
618	ALL	576855.9	4174360	0.000528	0.000106
619	ALL	577055.9	4174360	0.00043	8.61E-05
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621	ALL	577455.9	4174360	0.000398	7.96E-05
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623	ALL	573455.9	4174560	0.000356	7.11E-05
624	ALL	573655.9	4174560	0.000412	8.24E-05
625	ALL	573855.9	4174560	0.000478	9.56E-05
626	ALL	574055.9	4174560	0.000544	0.000109
627	ALL	574255.9	4174560	0.00059	0.000118
628	ALL	574455.9	4174560	0.000606	0.000121
629	ALL	574655.9	4174560	0.00064	0.000128
630	ALL	574855.9	4174560	0.000699	0.00014
631	ALL	575055.9	4174560	0.000624	0.000125
632	ALL	575255.9	4174560	0.000587	0.000117
633	ALL	575455.9	4174560	0.000701	0.00014

634	ALL	575655.9	4174560	0.000633	0.000127
635	ALL	575855.9	4174560	0.000678	0.000136
636	ALL	576055.9	4174560	0.000653	0.000131
637	ALL	576255.9	4174560	0.000587	0.000117
638	ALL	576455.9	4174560	0.000571	0.000114
639	ALL	576655.9	4174560	0.000439	8.78E-05
640	ALL	576855.9	4174560	0.000401	8.02E-05
641	ALL	577055.9	4174560	0.000332	6.64E-05
642	ALL	577255.9	4174560	0.000294	5.88E-05
643	ALL	577455.9	4174560	0.000314	6.28E-05
644	ALL	573255.9	4174760	0.00029	5.8E-05
645	ALL	573455.9	4174760	0.000328	6.56E-05
646	ALL	573655.9	4174760	0.000368	7.37E-05
647	ALL	573855.9	4174760	0.000404	8.07E-05
648	ALL	574055.9	4174760	0.000424	8.48E-05
649	ALL	574255.9	4174760	0.000425	8.51E-05
650	ALL	574455.9	4174760	0.000432	8.65E-05
651	ALL	574655.9	4174760	0.000474	9.48E-05
652	ALL	574855.9	4174760	0.000496	9.91E-05
653	ALL	575055.9	4174760	0.000412	8.24E-05
654	ALL	575255.9	4174760	0.000404	8.08E-05
655	ALL	575455.9	4174760	0.000488	9.77E-05
656	ALL	575655.9	4174760	0.000453	9.05E-05
657	ALL	575855.9	4174760	0.000444	8.87E-05
658	ALL	576055.9	4174760	0.000492	9.84E-05
659	ALL	576255.9	4174760	0.000443	8.86E-05
660	ALL	576455.9	4174760	0.000397	7.94E-05
661	ALL	576655.9	4174760	0.00033	6.60E-05
662	ALL	576855.9	4174760	0.000238	4.75E-05
663	ALL	577055.9	4174760	0.000201	4.03E-05
664	ALL	577255.9	4174760	0.000214	4.28E-05
665	ALL	577455.9	4174760	0.000231	4.61E-05
666	ALL	573255.9	4174960	0.000267	5.35E-05
667	ALL	573455.9	4174960	0.000293	5.85E-05
668	ALL	573655.9	4174960	0.000312	6.25E-05
669	ALL	573855.9	4174960	0.000322	6.43E-05
670	ALL	574055.9	4174960	0.000322	6.43E-05
671	ALL	574255.9	4174960	0.000326	6.53E-05
672	ALL	574455.9	4174960	0.000343	6.87E-05
673	ALL	574655.9	4174960	0.000366	7.33E-05
674	ALL	574855.9	4174960	0.00035	7.01E-05
675	ALL	575055.9	4174960	0.0003	6.01E-05
676	ALL	575255.9	4174960	0.000299	5.98E-05
677	ALL	575455.9	4174960	0.00036	7.2E-05
678	ALL	575655.9	4174960	0.000347	6.93E-05
679	ALL	575855.9	4174960	0.000321	6.42E-05
680	ALL	576055.9	4174960	0.00035	7.00E-05
681	ALL	576255.9	4174960	0.000361	7.21E-05
682	ALL	576455.9	4174960	0.000282	5.65E-05
683	ALL	576655.9	4174960	0.000215	4.31E-05
684	ALL	576855.9	4174960	0.000177	3.55E-05
685	ALL	577055.9	4174960	0.000144	2.89E-05
686	ALL	577255.9	4174960	0.00015	2.99E-05

687	ALL	577455.9	4174960	0.000169	3.37E-05
688	ALL	573255.9	4175160	0.000238	4.76E-05
689	ALL	573455.9	4175160	0.000249	4.99E-05
690	ALL	573655.9	4175160	0.000254	5.07E-05
691	ALL	573855.9	4175160	0.000252	5.04E-05
692	ALL	574055.9	4175160	0.000253	5.06E-05
693	ALL	574255.9	4175160	0.000266	5.31E-05
694	ALL	574455.9	4175160	0.00028	5.60E-05
695	ALL	574655.9	4175160	0.000293	5.86E-05
696	ALL	574855.9	4175160	0.000254	5.07E-05
697	ALL	575055.9	4175160	0.000233	4.66E-05
698	ALL	575255.9	4175160	0.000236	4.72E-05
699	ALL	575455.9	4175160	0.000283	5.66E-05
700	ALL	575655.9	4175160	0.000274	5.48E-05
701	ALL	575855.9	4175160	0.000254	5.08E-05
702	ALL	576055.9	4175160	0.000253	5.06E-05
703	ALL	576255.9	4175160	0.000265	5.29E-05
704	ALL	576455.9	4175160	0.000216	4.31E-05
705	ALL	576655.9	4175160	0.000155	3.10E-05
706	ALL	576855.9	4175160	0.000123	2.45E-05
707	ALL	577055.9	4175160	0.000113	2.27E-05
708	ALL	577255.9	4175160	0.00012	2.40E-05
709	ALL	577455.9	4175160	0.000109	2.18E-05
710	ALL	573255.9	4175360	0.000204	4.09E-05
711	ALL	573455.9	4175360	0.000206	4.12E-05
712	ALL	573655.9	4175360	0.000204	4.07E-05
713	ALL	573855.9	4175360	0.000203	4.06E-05
714	ALL	574055.9	4175360	0.00021	4.21E-05
715	ALL	574255.9	4175360	0.000224	4.47E-05
716	ALL	574455.9	4175360	0.000232	4.65E-05
717	ALL	574655.9	4175360	0.00023	4.61E-05
718	ALL	574855.9	4175360	0.000193	3.85E-05
719	ALL	575055.9	4175360	0.000186	3.71E-05
720	ALL	575255.9	4175360	0.000191	3.82E-05
721	ALL	575455.9	4175360	0.000228	4.57E-05
722	ALL	575655.9	4175360	0.000223	4.47E-05
723	ALL	575855.9	4175360	0.000209	4.18E-05
724	ALL	576055.9	4175360	0.000197	3.94E-05
725	ALL	576255.9	4175360	0.000201	4.02E-05
726	ALL	576455.9	4175360	0.00016	3.19E-05
727	ALL	576655.9	4175360	0.000106	2.12E-05
728	ALL	576855.9	4175360	8.86E-05	1.77E-05
729	ALL	577055.9	4175360	9.09E-05	1.82E-05
730	ALL	577255.9	4175360	9.56E-05	1.91E-05
731	ALL	577455.9	4175360	8.19E-05	1.64E-05
732	ALL	573255.9	4175560	0.000171	3.42E-05
733	ALL	573455.9	4175560	0.000169	3.37E-05
734	ALL	573655.9	4175560	0.000167	3.35E-05
735	ALL	573855.9	4175560	0.000172	3.43E-05
736	ALL	574055.9	4175560	0.000178	3.56E-05
737	ALL	574255.9	4175560	0.000187	3.73E-05
738	ALL	574455.9	4175560	0.000196	3.92E-05
739	ALL	574655.9	4175560	0.000179	3.57E-05

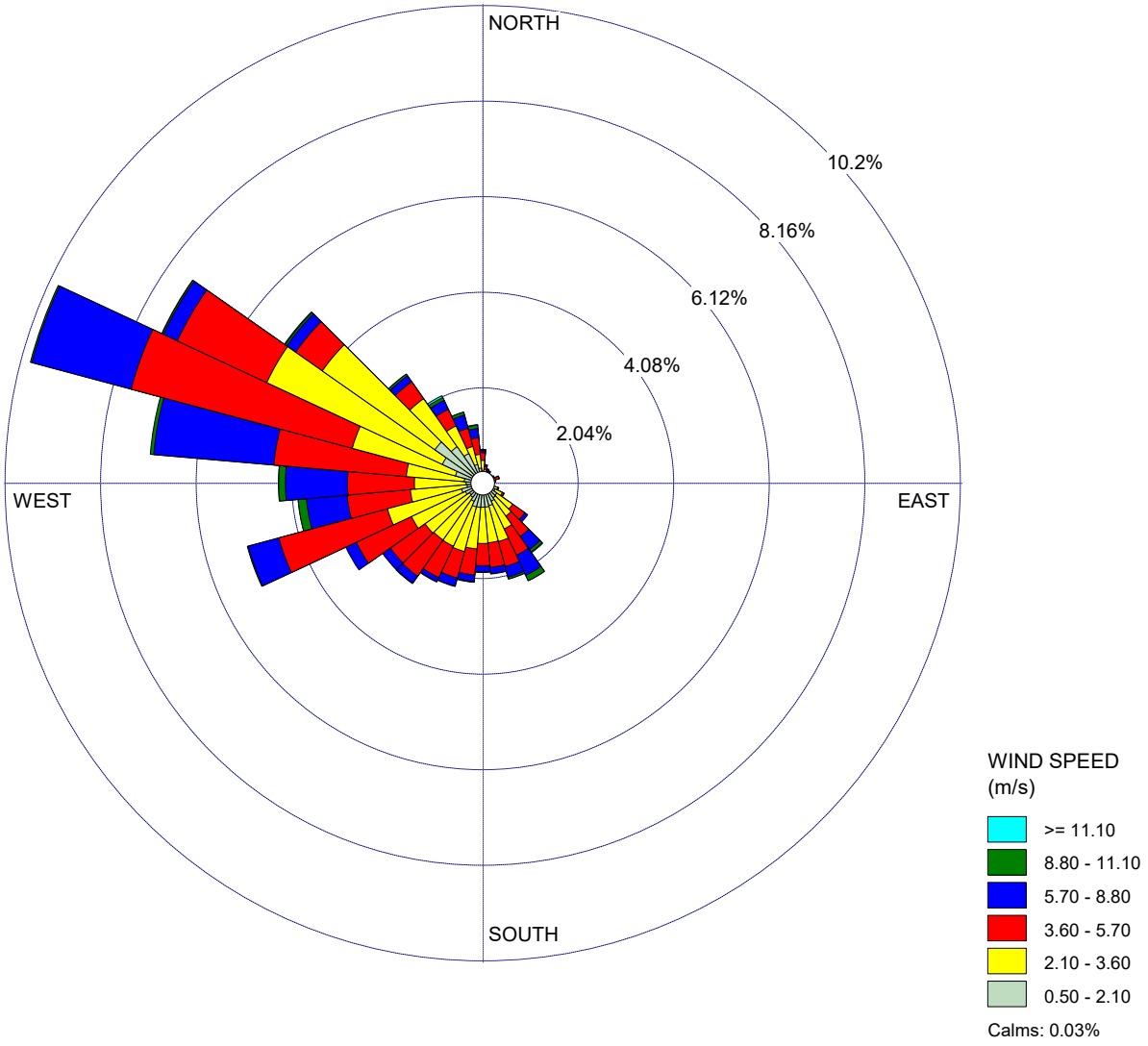
740	ALL	574855.9	4175560	0.000154	3.09E-05
741	ALL	575055.9	4175560	0.000151	3.03E-05
742	ALL	575255.9	4175560	0.000157	3.15E-05
743	ALL	575455.9	4175560	0.00019	3.79E-05
744	ALL	575655.9	4175560	0.000185	3.70E-05
745	ALL	575855.9	4175560	0.000174	3.49E-05
746	ALL	576055.9	4175560	0.000161	3.23E-05
747	ALL	576255.9	4175560	0.000138	2.77E-05
748	ALL	576455.9	4175560	9.37E-05	1.87E-05
749	ALL	576655.9	4175560	8.11E-05	1.62E-05
750	ALL	576855.9	4175560	7.56E-05	1.51E-05
751	ALL	577055.9	4175560	7.65E-05	1.53E-05
752	ALL	577255.9	4175560	7.45E-05	1.49E-05
753	ALL	577455.9	4175560	6.61E-05	1.32E-05
754	ALL	573255.9	4175760	0.000142	2.85E-05
755	ALL	573455.9	4175760	0.000141	2.82E-05
756	ALL	573655.9	4175760	0.000143	2.86E-05
757	ALL	573855.9	4175760	0.000149	2.99E-05
758	ALL	574055.9	4175760	0.000154	3.09E-05
759	ALL	574255.9	4175760	0.00016	3.21E-05
760	ALL	574455.9	4175760	0.000165	3.3E-05
761	ALL	574655.9	4175760	0.000139	2.79E-05
762	ALL	574855.9	4175760	0.000129	2.58E-05
763	ALL	575055.9	4175760	0.000126	2.52E-05
764	ALL	575255.9	4175760	0.000133	2.66E-05
765	ALL	575455.9	4175760	0.00016	3.20E-05
766	ALL	575655.9	4175760	0.000156	3.12E-05
767	ALL	575855.9	4175760	0.000147	2.94E-05
768	ALL	576055.9	4175760	0.000131	2.61E-05
769	ALL	576255.9	4175760	9.99E-05	2E-05
770	ALL	576455.9	4175760	8.56E-05	1.71E-05
771	ALL	576655.9	4175760	7.16E-05	1.43E-05
772	ALL	576855.9	4175760	6.78E-05	1.36E-05
773	ALL	577055.9	4175760	7.67E-05	1.53E-05
774	ALL	577255.9	4175760	6.80E-05	1.36E-05
775	ALL	577455.9	4175760	6.84E-05	1.37E-05

WIND ROSE PLOT:

Station #23230 - OAKLAND/WSO AP, CA

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **Start Date: 1/1/2009 - 07:00** **End Date: 1/1/2018 - 15:00**	COMPANY NAME:	
		MODELER:	
	CALM WINDS: **0.03%**	TOTAL COUNT: **24316 hrs.**	
	AVG. WIND SPEED: **3.77 m/s**	DATE: **5/23/2023**	PROJECT NO.:

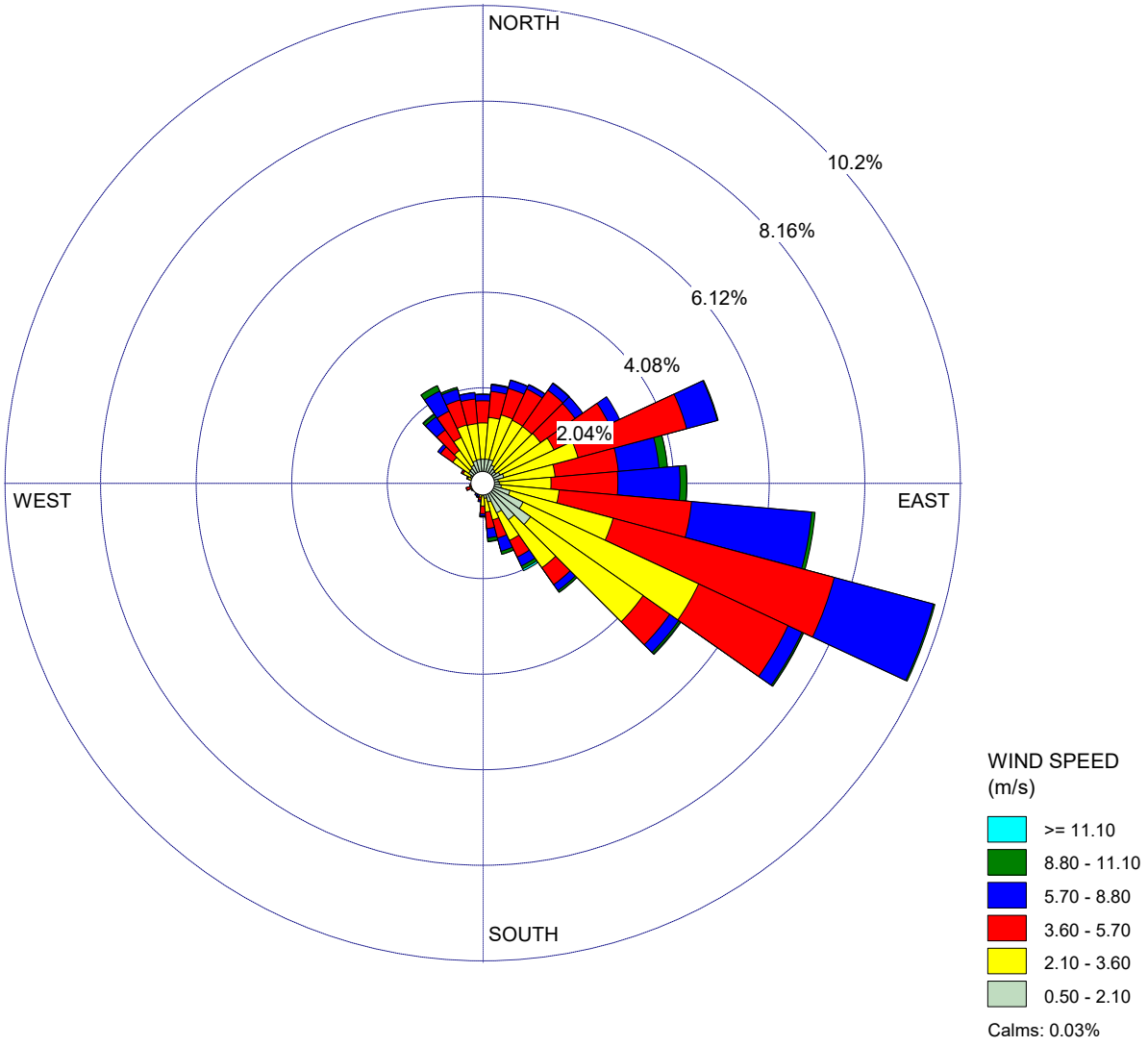
WRPLOT View - Lakes Environmental Software

WIND ROSE PLOT:

Station #23230 - OAKLAND/WSO AP, CA

DISPLAY:

Wind Speed
Flow Vector (blowing to)



COMMENTS:	DATA PERIOD: **Start Date: 1/1/2009 - 07:00** **End Date: 1/1/2018 - 15:00**	COMPANY NAME:	
		MODELER:	
	CALM WINDS: **0.03%**	TOTAL COUNT: **24316 hrs.**	
	AVG. WIND SPEED: **3.77 m/s**	DATE: **5/23/2023**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

Updated CalEEMod Modeling Outputs

14143 Washington Ave Warehouse Project v2 Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	14143 Washington Ave Warehouse Project v2
Construction Start Date	1/1/2024
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.30
Precipitation (days)	27.6
Location	37.70690910478942, -122.14525650152146
County	Alameda
City	San Leandro
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1426
EDFZ	1
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
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

Unrefrigerated Warehouse-No Rail	47.5	1000sqft	1.09	47,500	0.00	—	—	—
General Office Building	5.00	1000sqft	0.11	5,000	0.00	—	—	—
Parking Lot	90.3	1000sqft	2.07	0.00	0.00	—	—	—
City Park	0.17	Acre	0.17	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-2*	Limit Heavy-Duty Diesel Vehicle Idling
Construction	C-10-A	Water Exposed Surfaces
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure
Transportation	T-33*	Locate Project near Bike Path/Bike Lane
Transportation	T-34*	Provide Bike Parking
Energy	E-15	Require All-Electric Development
Waste	S-4*	Recycle Demolished Construction Material

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

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.	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.	1.54	1.29	11.6	14.1	0.02	0.50	0.24	0.74	0.46	0.06	0.52	—	2,821	2,821	0.11	0.06	1.43	2,843
Mit.	1.54	1.29	11.6	14.1	0.02	0.50	0.24	0.74	0.46	0.06	0.52	—	2,821	2,821	0.11	0.06	1.43	2,843

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.40	32.0	36.0	33.6	0.05	1.60	19.8	21.4	1.47	10.1	11.6	—	5,439	5,439	0.22	0.27	0.10	5,459
Mit.	4.40	32.0	36.0	33.6	0.05	1.60	7.81	9.41	1.47	3.97	5.45	—	5,439	5,439	0.22	0.27	0.10	5,459
% Reduced	—	—	—	—	—	—	61%	56%	—	61%	53%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.25	1.63	9.64	10.9	0.02	0.41	0.85	1.27	0.38	0.30	0.68	—	2,183	2,183	0.09	0.06	0.49	2,202
Mit.	1.25	1.63	9.64	10.9	0.02	0.41	0.60	1.01	0.38	0.17	0.55	—	2,183	2,183	0.09	0.06	0.49	2,202
% Reduced	—	—	—	—	—	—	30%	20%	—	44%	19%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.23	0.30	1.76	2.00	< 0.005	0.08	0.16	0.23	0.07	0.05	0.12	—	361	361	0.01	0.01	0.08	365
Mit.	0.23	0.30	1.76	2.00	< 0.005	0.08	0.11	0.18	0.07	0.03	0.10	—	361	361	0.01	0.01	0.08	365
% Reduced	—	—	—	—	—	—	30%	20%	—	44%	19%	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	54.0	54.0	—	—	82.0	—	—	54.0	—	—	—	—	—	—	—	—	—
Unmit.	—	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—	—	—
Mit.	—	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Threshold	—	54.0	54.0	—	—	82.0	—	—	54.0	—	—	—	—	—	—	—	—	—
Unmit.	—	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—	—	—
Mit.	—	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.54	1.29	11.6	14.1	0.02	0.50	0.24	0.74	0.46	0.06	0.52	—	2,821	2,821	0.11	0.06	1.43	2,843
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.40	3.71	36.0	33.6	0.05	1.60	19.8	21.4	1.47	10.1	11.6	—	5,439	5,439	0.22	0.27	0.10	5,459
2025	1.44	32.0	10.8	13.9	0.02	0.44	0.24	0.67	0.40	0.06	0.46	—	2,800	2,800	0.11	0.06	0.04	2,821
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.25	1.05	9.64	10.9	0.02	0.41	0.85	1.27	0.38	0.30	0.68	—	2,183	2,183	0.09	0.06	0.49	2,202
2025	0.06	1.63	0.39	0.56	< 0.005	0.02	0.01	0.03	0.02	< 0.005	0.02	—	88.4	88.4	< 0.005	< 0.005	0.02	88.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.23	0.19	1.76	2.00	< 0.005	0.08	0.16	0.23	0.07	0.05	0.12	—	361	361	0.01	0.01	0.08	365
2025	0.01	0.30	0.07	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.6	14.6	< 0.005	< 0.005	< 0.005	14.7

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.54	1.29	11.6	14.1	0.02	0.50	0.24	0.74	0.46	0.06	0.52	—	2,821	2,821	0.11	0.06	1.43	2,843
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.40	3.71	36.0	33.6	0.05	1.60	7.81	9.41	1.47	3.97	5.45	—	5,439	5,439	0.22	0.27	0.10	5,459
2025	1.44	32.0	10.8	13.9	0.02	0.44	0.24	0.67	0.40	0.06	0.46	—	2,800	2,800	0.11	0.06	0.04	2,821
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.25	1.05	9.64	10.9	0.02	0.41	0.60	1.01	0.38	0.17	0.55	—	2,183	2,183	0.09	0.06	0.49	2,202
2025	0.06	1.63	0.39	0.56	< 0.005	0.02	0.01	0.03	0.02	< 0.005	0.02	—	88.4	88.4	< 0.005	< 0.005	0.02	88.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.23	0.19	1.76	2.00	< 0.005	0.08	0.11	0.18	0.07	0.03	0.10	—	361	361	0.01	0.01	0.08	365
2025	0.01	0.30	0.07	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.6	14.6	< 0.005	< 0.005	< 0.005	14.7

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.	0.43	1.68	0.14	2.43	< 0.005	0.01	0.01	0.03	0.01	< 0.005	0.01	49.3	563	613	5.07	0.07	0.10	759
Mit.	0.43	1.68	0.14	2.43	< 0.005	0.01	0.01	0.03	0.01	< 0.005	0.01	49.3	563	613	5.07	0.07	0.10	759
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	1.30	0.12	0.15	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	49.3	553	602	5.07	0.07	0.01	749

Mit.	0.02	1.30	0.12	0.15	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	49.3	553	602	5.07	0.07	0.01	749
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.22	1.49	0.13	1.27	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	49.3	558	607	5.07	0.07	0.05	753
Mit.	0.22	1.49	0.13	1.27	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	49.3	558	607	5.07	0.07	0.05	753
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.04	0.27	0.02	0.23	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	8.17	92.3	101	0.84	0.01	0.01	125
Mit.	0.04	0.27	0.02	0.23	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	8.17	92.3	101	0.84	0.01	0.01	125
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	54.0	54.0	—	—	82.0	—	—	54.0	—	—	—	—	—	—	—	—	—
Unmit.	Yes	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—	—	—
Mit.	Yes	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	54.0	54.0	—	—	82.0	—	—	54.0	—	—	—	—	—	—	—	—	—
Unmit.	Yes	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—	—	—
Mit.	Yes	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Threshol	—	10.0	10.0	—	—	15.0	—	—	10.0	—	—	—	—	—	—	—	—
Unmit.	—	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—	—
Mit.	—	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—	—

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	0.01	0.01	0.02	0.06	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	23.0	23.0	< 0.005	< 0.005	0.08	23.7
Area	0.41	1.66	0.02	2.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.39	9.39	< 0.005	< 0.005	—	9.42
Energy	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	487	487	0.07	0.01	—	491
Water	—	—	—	—	—	—	—	—	—	—	—	22.8	43.5	66.3	2.34	0.06	—	142
Waste	—	—	—	—	—	—	—	—	—	—	—	26.6	0.00	26.6	2.66	0.00	—	93.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	0.43	1.68	0.14	2.43	< 0.005	0.01	0.01	0.03	0.01	< 0.005	0.01	49.3	563	613	5.07	0.07	0.10	759
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.02	0.06	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	22.2	22.2	< 0.005	< 0.005	< 0.005	22.8
Area	—	1.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	487	487	0.07	0.01	—	491
Water	—	—	—	—	—	—	—	—	—	—	—	22.8	43.5	66.3	2.34	0.06	—	142
Waste	—	—	—	—	—	—	—	—	—	—	—	26.6	0.00	26.6	2.66	0.00	—	93.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	0.02	1.30	0.12	0.15	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	49.3	553	602	5.07	0.07	0.01	749
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.01	0.01	0.02	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.2	22.2	< 0.005	< 0.005	0.04	22.9
Area	0.20	1.47	0.01	1.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.63	4.63	< 0.005	< 0.005	—	4.65
Energy	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	487	487	0.07	0.01	—	491
Water	—	—	—	—	—	—	—	—	—	—	—	22.8	43.5	66.3	2.34	0.06	—	142
Waste	—	—	—	—	—	—	—	—	—	—	—	26.6	0.00	26.6	2.66	0.00	—	93.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	0.22	1.49	0.13	1.27	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	49.3	558	607	5.07	0.07	0.05	753
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.68	3.68	< 0.005	< 0.005	0.01	3.79
Area	0.04	0.27	< 0.005	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.77	0.77	< 0.005	< 0.005	—	0.77
Energy	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	80.7	80.7	0.01	< 0.005	—	81.3
Water	—	—	—	—	—	—	—	—	—	—	—	3.77	7.21	11.0	0.39	0.01	—	23.4
Waste	—	—	—	—	—	—	—	—	—	—	—	4.40	0.00	4.40	0.44	0.00	—	15.4
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	0.04	0.27	0.02	0.23	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	8.17	92.3	101	0.84	0.01	0.01	125

2.6. Operations Emissions by Sector, Mitigated

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	0.01	0.01	0.02	0.06	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	23.0	23.0	< 0.005	< 0.005	0.08	23.7
Area	0.41	1.66	0.02	2.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.39	9.39	< 0.005	< 0.005	—	9.42
Energy	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	487	487	0.07	0.01	—	491
Water	—	—	—	—	—	—	—	—	—	—	—	22.8	43.5	66.3	2.34	0.06	—	142
Waste	—	—	—	—	—	—	—	—	—	—	—	26.6	0.00	26.6	2.66	0.00	—	93.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01

Total	0.43	1.68	0.14	2.43	< 0.005	0.01	0.01	0.03	0.01	< 0.005	0.01	49.3	563	613	5.07	0.07	0.10	759
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.02	0.06	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	22.2	22.2	< 0.005	< 0.005	< 0.005	22.8
Area	—	1.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	487	487	0.07	0.01	—	491
Water	—	—	—	—	—	—	—	—	—	—	—	22.8	43.5	66.3	2.34	0.06	—	142
Waste	—	—	—	—	—	—	—	—	—	—	—	26.6	0.00	26.6	2.66	0.00	—	93.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	0.02	1.30	0.12	0.15	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	49.3	553	602	5.07	0.07	0.01	749
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.02	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.2	22.2	< 0.005	< 0.005	0.04	22.9
Area	0.20	1.47	0.01	1.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.63	4.63	< 0.005	< 0.005	—	4.65
Energy	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	487	487	0.07	0.01	—	491
Water	—	—	—	—	—	—	—	—	—	—	—	22.8	43.5	66.3	2.34	0.06	—	142
Waste	—	—	—	—	—	—	—	—	—	—	—	26.6	0.00	26.6	2.66	0.00	—	93.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	0.22	1.49	0.13	1.27	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	49.3	558	607	5.07	0.07	0.05	753
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.68	3.68	< 0.005	< 0.005	0.01	3.79
Area	0.04	0.27	< 0.005	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.77	0.77	< 0.005	< 0.005	—	0.77
Energy	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	80.7	80.7	0.01	< 0.005	—	81.3
Water	—	—	—	—	—	—	—	—	—	—	—	3.77	7.21	11.0	0.39	0.01	—	23.4
Waste	—	—	—	—	—	—	—	—	—	—	—	4.40	0.00	4.40	0.44	0.00	—	15.4
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	0.04	0.27	0.02	0.23	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	8.17	92.3	101	0.84	0.01	0.01	125

3. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	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	3.12	2.62	24.9	21.7	0.03	1.06	—	1.06	0.98	—	0.98	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	4.56	4.56	—	0.69	0.69	—	—	—	—	—	—	—
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.36	1.19	< 0.005	0.06	—	0.06	0.05	—	0.05	—	188	188	0.01	< 0.005	—	188
Demolition	—	—	—	—	—	—	0.25	0.25	—	0.04	0.04	—	—	—	—	—	—	—
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.25	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.1	31.1	< 0.005	< 0.005	—	31.2
Demolition	—	—	—	—	—	—	0.05	0.05	—	0.01	0.01	—	—	—	—	—	—	—

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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.55	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	123	123	< 0.005	0.01	0.01	125
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	0.00
Hauling	0.11	0.03	1.94	0.74	0.01	0.03	0.39	0.42	0.03	0.11	0.13	—	1,500	1,500	0.08	0.24	0.09	1,573
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.78	6.78	< 0.005	< 0.005	0.01	6.88
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	0.00
Hauling	0.01	< 0.005	0.10	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	82.2	82.2	< 0.005	0.01	0.08	86.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.12	1.12	< 0.005	< 0.005	< 0.005	1.14
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	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.6	13.6	< 0.005	< 0.005	0.01	14.3

3.2. Demolition (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	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	3.12	2.62	24.9	21.7	0.03	1.06	—	1.06	0.98	—	0.98	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	4.56	4.56	—	0.69	0.69	—	—	—	—	—	—	—
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.36	1.19	< 0.005	0.06	—	0.06	0.05	—	0.05	—	188	188	0.01	< 0.005	—	188
Demolition	—	—	—	—	—	—	0.25	0.25	—	0.04	0.04	—	—	—	—	—	—	—
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.25	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.1	31.1	< 0.005	< 0.005	—	31.2
Demolition	—	—	—	—	—	—	0.05	0.05	—	0.01	0.01	—	—	—	—	—	—	—
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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.55	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	123	123	< 0.005	0.01	0.01	125
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	0.00

Hauling	0.11	0.03	1.94	0.74	0.01	0.03	0.39	0.42	0.03	0.11	0.13	—	1,500	1,500	0.08	0.24	0.09	1,573
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.78	6.78	< 0.005	< 0.005	0.01	6.88
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	0.00
Hauling	0.01	< 0.005	0.10	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	82.2	82.2	< 0.005	0.01	0.08	86.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.12	1.12	< 0.005	< 0.005	< 0.005	1.14
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	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.6	13.6	< 0.005	< 0.005	0.01	14.3

3.3. 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	TOG	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	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.06	0.05	0.49	0.45	< 0.005	0.02	—	0.02	0.02	—	0.02	—	72.5	72.5	< 0.005	< 0.005	—	72.8
Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.14	0.14	—	—	—	—	—	—	—
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0	12.0	< 0.005	< 0.005	—	12.1
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.64	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	143	143	< 0.005	0.01	0.02	145
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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.98	1.98	< 0.005	< 0.005	< 0.005	2.01
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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.33	0.33	< 0.005	< 0.005	< 0.005	0.33
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	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	0.00

3.4. Site Preparation (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	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	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.49	0.45	< 0.005	0.02	—	0.02	0.02	—	0.02	—	72.5	72.5	< 0.005	< 0.005	—	72.8
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.05	0.05	—	—	—	—	—	—	—
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.09	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0	12.0	< 0.005	< 0.005	—	12.1
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.64	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	143	143	< 0.005	0.01	0.02	145
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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.98	1.98	< 0.005	< 0.005	< 0.005	2.01
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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.33	0.33	< 0.005	< 0.005	< 0.005	0.33
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	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	0.00

3.5. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	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	2.26	1.90	18.2	18.8	0.03	0.84	—	0.84	0.77	—	0.77	—	2,958	2,958	0.12	0.02	—	2,969
Dust From Material Movement	—	—	—	—	—	—	7.08	7.08	—	3.42	3.42	—	—	—	—	—	—	—
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.40	0.41	< 0.005	0.02	—	0.02	0.02	—	0.02	—	64.8	64.8	< 0.005	< 0.005	—	65.1
Dust From Material Movement	—	—	—	—	—	—	0.16	0.16	—	0.08	0.08	—	—	—	—	—	—	—
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.7	10.7	< 0.005	< 0.005	—	10.8
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.55	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	123	123	< 0.005	0.01	0.01	125
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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.71	2.71	< 0.005	< 0.005	0.01	2.75
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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.46
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	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	0.00

3.6. Grading (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	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	2.26	1.90	18.2	18.8	0.03	0.84	—	0.84	0.77	—	0.77	—	2,958	2,958	0.12	0.02	—	2,969

Dust From Material Movement	—	—	—	—	—	—	2.76	2.76	—	1.34	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.40	0.41	< 0.005	0.02	—	0.02	0.02	—	0.02	—	64.8	64.8	< 0.005	< 0.005	—	65.1
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.7	10.7	< 0.005	< 0.005	—	10.8
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.55	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	123	123	< 0.005	0.01	0.01	125
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	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	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.71	2.71	< 0.005	< 0.005	0.01	2.75
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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.46
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	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	0.00

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	TOG	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	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.90	0.76	7.05	8.24	0.01	0.31	—	0.31	0.29	—	0.29	—	1,506	1,506	0.06	0.01	—	1,511
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.14	1.29	1.50	< 0.005	0.06	—	0.06	0.05	—	0.05	—	249	249	0.01	< 0.005	—	250
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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.05	0.89	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	190	190	< 0.005	0.01	0.81	193
Vendor	0.02	0.01	0.29	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	233	233	0.01	0.03	0.62	244
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.07	0.79	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	177	177	< 0.005	0.01	0.02	179
Vendor	0.02	0.01	0.31	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	233	233	0.01	0.03	0.02	244
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.48	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	112	112	< 0.005	< 0.005	0.22	113
Vendor	0.01	< 0.005	0.19	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	146	146	0.01	0.02	0.17	153
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.5	18.5	< 0.005	< 0.005	0.04	18.8
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.2	24.2	< 0.005	< 0.005	0.03	25.4
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	0.00

3.8. Building Construction (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	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	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90	0.76	7.05	8.24	0.01	0.31	—	0.31	0.29	—	0.29	—	1,506	1,506	0.06	0.01	—	1,511
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.14	1.29	1.50	< 0.005	0.06	—	0.06	0.05	—	0.05	—	249	249	0.01	< 0.005	—	250
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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.05	0.89	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	190	190	< 0.005	0.01	0.81	193
Vendor	0.02	0.01	0.29	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	233	233	0.01	0.03	0.62	244
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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.07	0.79	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	177	177	< 0.005	0.01	0.02	179
Vendor	0.02	0.01	0.31	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	233	233	0.01	0.03	0.02	244
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.48	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	112	112	< 0.005	< 0.005	0.22	113
Vendor	0.01	< 0.005	0.19	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	146	146	0.01	0.02	0.17	153
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.5	18.5	< 0.005	< 0.005	0.04	18.8
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.2	24.2	< 0.005	< 0.005	0.03	25.4
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	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	TOG	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	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.69	4.69	< 0.005	< 0.005	—	4.71
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.78	0.78	< 0.005	< 0.005	—	0.78
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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.07	0.73	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	173	173	< 0.005	0.01	0.02	175
Vendor	0.02	0.01	0.30	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	229	229	0.01	0.03	0.02	240
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.34	0.34	< 0.005	< 0.005	< 0.005	0.35
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.47
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	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.06
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.08
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	0.00

3.10. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	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	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.69	4.69	< 0.005	< 0.005	—	4.71
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.78	0.78	< 0.005	< 0.005	—	0.78
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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.07	0.73	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	173	173	< 0.005	0.01	0.02	175
Vendor	0.02	0.01	0.30	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	229	229	0.01	0.03	0.02	240
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.34	0.34	< 0.005	< 0.005	< 0.005	0.35
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	< 0.005	< 0.005	< 0.005	0.47
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.06
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.08
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	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	TOG	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	0.85	0.71	6.52	8.84	0.01	0.29	—	0.29	0.26	—	0.26	—	1,351	1,351	0.05	0.01	—	1,355

Paving	—	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.32	0.44	< 0.005	0.01	—	0.01	0.01	—	0.01	—	66.6	66.6	< 0.005	< 0.005	—	66.8
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.0	11.0	< 0.005	< 0.005	—	11.1
Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	0.68	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	161	161	< 0.005	0.01	0.02	163
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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.98	7.98	< 0.005	< 0.005	0.01	8.10
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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.32	1.32	< 0.005	< 0.005	< 0.005	1.34
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	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	0.00

3.12. Paving (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	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	0.85	0.71	6.52	8.84	0.01	0.29	—	0.29	0.26	—	0.26	—	1,351	1,351	0.05	0.01	—	1,355
Paving	—	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.32	0.44	< 0.005	0.01	—	0.01	0.01	—	0.01	—	66.6	66.6	< 0.005	< 0.005	—	66.8
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.0	11.0	< 0.005	< 0.005	—	11.1
Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	0.68	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	161	161	< 0.005	0.01	0.02	163
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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.98	7.98	< 0.005	< 0.005	0.01	8.10
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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.32	1.32	< 0.005	< 0.005	< 0.005	1.34
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	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	0.00

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	TOG	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	0.15	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	—	31.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.58	6.58	< 0.005	< 0.005	—	6.61
Architectural Coatings	—	1.57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.09	1.09	< 0.005	< 0.005	—	1.09
Architectural Coatings	—	0.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	34.6	34.6	< 0.005	< 0.005	< 0.005	35.1

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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.72	1.72	< 0.005	< 0.005	< 0.005	1.75
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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.28	0.28	< 0.005	< 0.005	< 0.005	0.29
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	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	0.00

3.14. Architectural Coating (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	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	0.15	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	—	31.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.58	6.58	< 0.005	< 0.005	—	6.61
Architectural Coatings	—	1.57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.09	1.09	< 0.005	< 0.005	—	1.09
Architectural Coatings	—	0.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	34.6	34.6	< 0.005	< 0.005	< 0.005	35.1
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	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.72	1.72	< 0.005	< 0.005	< 0.005	1.75
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	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.28	0.28	< 0.005	< 0.005	< 0.005	0.29

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	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	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.0	12.0	< 0.005	< 0.005	0.04	12.5
General Office Building	0.01	0.01	< 0.005	0.05	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.04	11.1
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	0.00
City Park	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.04
Total	0.01	0.01	0.02	0.06	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	23.0	23.0	< 0.005	< 0.005	0.08	23.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.0	12.0	< 0.005	< 0.005	< 0.005	12.5
General Office Building	0.01	0.01	< 0.005	0.05	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	10.2	10.2	< 0.005	< 0.005	< 0.005	10.3
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	0.00
City Park	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Total	0.01	0.01	0.02	0.06	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	22.2	22.2	< 0.005	< 0.005	< 0.005	22.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.99	1.99	< 0.005	< 0.005	< 0.005	2.07
General Office Building	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.69	1.69	< 0.005	< 0.005	< 0.005	1.71
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	0.00
City Park	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.68	3.68	< 0.005	< 0.005	0.01	3.79

4.1.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.0	12.0	< 0.005	< 0.005	0.04	12.5
General Office Building	0.01	0.01	< 0.005	0.05	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.04	11.1
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	0.00
City Park	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.04
Total	0.01	0.01	0.02	0.06	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	23.0	23.0	< 0.005	< 0.005	0.08	23.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.0	12.0	< 0.005	< 0.005	< 0.005	12.5
General Office Building	0.01	0.01	< 0.005	0.05	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	10.2	10.2	< 0.005	< 0.005	< 0.005	10.3
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	0.00
City Park	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Total	0.01	0.01	0.02	0.06	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	22.2	22.2	< 0.005	< 0.005	< 0.005	22.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.99	1.99	< 0.005	< 0.005	< 0.005	2.07
General Office Building	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.69	1.69	< 0.005	< 0.005	< 0.005	1.71
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	0.00

City Park	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.68	3.68	< 0.005	< 0.005	0.01	3.79

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	266	266	0.04	0.01	—	269
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	59.2	59.2	0.01	< 0.005	—	59.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	44.2	44.2	0.01	< 0.005	—	44.6
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	369	369	0.06	0.01	—	373
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	266	266	0.04	0.01	—	269

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	59.2	59.2	0.01	< 0.005	—	59.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	44.2	44.2	0.01	< 0.005	—	44.6
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	369	369	0.06	0.01	—	373
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	44.0	44.0	0.01	< 0.005	—	44.5
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	9.79	9.79	< 0.005	< 0.005	—	9.89
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	7.32	7.32	< 0.005	< 0.005	—	7.39
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	61.1	61.1	0.01	< 0.005	—	61.7

4.2.2. Electricity Emissions By Land Use - Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	266	266	0.04	0.01	—	269

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	59.2	59.2	0.01	< 0.005	—	59.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	44.2	44.2	0.01	< 0.005	—	44.6
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	369	369	0.06	0.01	—	373
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	266	266	0.04	0.01	—	269
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	59.2	59.2	0.01	< 0.005	—	59.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	44.2	44.2	0.01	< 0.005	—	44.6
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	369	369	0.06	0.01	—	373
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	44.0	44.0	0.01	< 0.005	—	44.5
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	9.79	9.79	< 0.005	< 0.005	—	9.89
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	7.32	7.32	< 0.005	< 0.005	—	7.39
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	61.1	61.1	0.01	< 0.005	—	61.7

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	80.0	80.0	0.01	< 0.005	—	80.2
General Office Building	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38.1	38.1	< 0.005	< 0.005	—	38.2
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
City Park	0.00	0.00	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	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	118	118	0.01	< 0.005	—	118
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	80.0	80.0	0.01	< 0.005	—	80.2
General Office Building	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38.1	38.1	< 0.005	< 0.005	—	38.2
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
City Park	0.00	0.00	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	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	118	118	0.01	< 0.005	—	118

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.2	13.2	< 0.005	< 0.005	—	13.3
General Office Building	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.30	6.30	< 0.005	< 0.005	—	6.32
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
City Park	0.00	0.00	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	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.5	19.5	< 0.005	< 0.005	—	19.6

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	80.0	80.0	0.01	< 0.005	—	80.2
General Office Building	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38.1	38.1	< 0.005	< 0.005	—	38.2
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
City Park	0.00	0.00	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	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	118	118	0.01	< 0.005	—	118

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	80.0	80.0	0.01	< 0.005	—	80.2
General Office Building	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38.1	38.1	< 0.005	< 0.005	—	38.2
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
City Park	0.00	0.00	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	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	118	118	0.01	< 0.005	—	118
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.2	13.2	< 0.005	< 0.005	—	13.3
General Office Building	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.30	6.30	< 0.005	< 0.005	—	6.32
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
City Park	0.00	0.00	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	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.5	19.5	< 0.005	< 0.005	—	19.6

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	—	1.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.41	0.37	0.02	2.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.39	9.39	< 0.005	< 0.005	—	9.42
Total	0.41	1.66	0.02	2.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.39	9.39	< 0.005	< 0.005	—	9.42
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	1.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	0.03	< 0.005	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.77	0.77	< 0.005	< 0.005	—	0.77

Total	0.04	0.27	< 0.005	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.77	0.77	< 0.005	< 0.005	—	0.77

4.3.2. Mitigated

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	—	1.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.41	0.37	0.02	2.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.39	9.39	< 0.005	< 0.005	—	9.42
Total	0.41	1.66	0.02	2.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.39	9.39	< 0.005	< 0.005	—	9.42
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	1.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	—	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	0.03	< 0.005	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.77	0.77	< 0.005	< 0.005	—	0.77
Total	0.04	0.27	< 0.005	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.77	0.77	< 0.005	< 0.005	—	0.77

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	21.0	39.8	60.8	2.16	0.05	—	130
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1.70	3.22	4.92	0.18	< 0.005	—	10.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.56	0.56	< 0.005	< 0.005	—	0.56
Total	—	—	—	—	—	—	—	—	—	—	—	22.8	43.5	66.3	2.34	0.06	—	142
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	21.0	39.8	60.8	2.16	0.05	—	130
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1.70	3.22	4.92	0.18	< 0.005	—	10.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.56	0.56	< 0.005	< 0.005	—	0.56
Total	—	—	—	—	—	—	—	—	—	—	—	22.8	43.5	66.3	2.34	0.06	—	142
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.48	6.58	10.1	0.36	0.01	—	21.6
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.28	0.53	0.81	0.03	< 0.005	—	1.75
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.09	0.09	< 0.005	< 0.005	—	0.09
Total	—	—	—	—	—	—	—	—	—	—	—	3.77	7.21	11.0	0.39	0.01	—	23.4

4.4.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	21.0	39.8	60.8	2.16	0.05	—	130
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1.70	3.22	4.92	0.18	< 0.005	—	10.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.56	0.56	< 0.005	< 0.005	—	0.56
Total	—	—	—	—	—	—	—	—	—	—	—	22.8	43.5	66.3	2.34	0.06	—	142
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	21.0	39.8	60.8	2.16	0.05	—	130
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1.70	3.22	4.92	0.18	< 0.005	—	10.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.56	0.56	< 0.005	< 0.005	—	0.56
Total	—	—	—	—	—	—	—	—	—	—	—	22.8	43.5	66.3	2.34	0.06	—	142
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.48	6.58	10.1	0.36	0.01	—	21.6
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.28	0.53	0.81	0.03	< 0.005	—	1.75

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.09	0.09	< 0.005	< 0.005	—	0.09
Total	—	—	—	—	—	—	—	—	—	—	—	3.77	7.21	11.0	0.39	0.01	—	23.4

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	24.1	0.00	24.1	2.41	0.00	—	84.2
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2.51	0.00	2.51	0.25	0.00	—	8.77
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.01	0.00	0.01	< 0.005	0.00	—	0.03
Total	—	—	—	—	—	—	—	—	—	—	—	26.6	0.00	26.6	2.66	0.00	—	93.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	24.1	0.00	24.1	2.41	0.00	—	84.2

General Office Building	—	—	—	—	—	—	—	—	—	—	—	2.51	0.00	2.51	0.25	0.00	—	8.77
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.01	0.00	0.01	< 0.005	0.00	—	0.03
Total	—	—	—	—	—	—	—	—	—	—	—	26.6	0.00	26.6	2.66	0.00	—	93.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.98	0.00	3.98	0.40	0.00	—	13.9
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.41	0.00	0.41	0.04	0.00	—	1.45
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	< 0.005	0.00	< 0.005	< 0.005	0.00	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	4.40	0.00	4.40	0.44	0.00	—	15.4

4.5.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	24.1	0.00	24.1	2.41	0.00	—	84.2

General Office Building	—	—	—	—	—	—	—	—	—	—	—	2.51	0.00	2.51	0.25	0.00	—	8.77
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.01	0.00	0.01	< 0.005	0.00	—	0.03
Total	—	—	—	—	—	—	—	—	—	—	—	26.6	0.00	26.6	2.66	0.00	—	93.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	24.1	0.00	24.1	2.41	0.00	—	84.2
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2.51	0.00	2.51	0.25	0.00	—	8.77
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.01	0.00	0.01	< 0.005	0.00	—	0.03
Total	—	—	—	—	—	—	—	—	—	—	—	26.6	0.00	26.6	2.66	0.00	—	93.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.98	0.00	3.98	0.40	0.00	—	13.9
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.41	0.00	0.41	0.04	0.00	—	1.45
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	< 0.005	0.00	< 0.005	< 0.005	0.00	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	4.40	0.00	4.40	0.44	0.00	—	15.4

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005

4.6.2. Mitigated

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
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	Demolition	1/1/2024	1/27/2024	5.00	20.0	—
Site Preparation	Site Preparation	1/28/2024	2/3/2024	5.00	5.00	—
Grading	Grading	2/4/2024	2/14/2024	5.00	8.00	—
Building Construction	Building Construction	2/15/2024	1/1/2025	5.00	230	—
Paving	Paving	1/4/2025	1/29/2025	5.00	18.0	—
Architectural Coating	Architectural Coating	1/30/2025	2/24/2025	5.00	18.0	—

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	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29

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	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
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	6.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29

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	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
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	6.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	21.0	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT

Grading	—	—	—	—
Grading	Worker	15.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	21.6	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	8.60	8.40	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	20.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	4.31	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	21.0	20.0	HHDT

Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	21.6	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	8.60	8.40	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	20.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	4.31	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

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	78,750	26,250	5,416

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	4,116	—
Site Preparation	—	—	7.50	0.00	—
Grading	—	—	8.00	0.00	—
Paving	0.00	0.00	0.00	0.00	2.07

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
General Office Building	0.00	0%
Parking Lot	2.07	100%
City Park	0.00	0%

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	204	0.03	< 0.005
2025	0.00	204	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
Unrefrigerated Warehouse-No Rail	56.0	56.0	56.0	20,458	435	435	435	158,736
General Office Building	204	204	204	74,460	1,583	1,583	1,583	577,736
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.13	0.33	0.37	71.4	1.03	2.59	2.89	554

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	56.0	56.0	56.0	20,458	435	435	435	158,736
General Office Building	204	204	204	74,460	1,583	1,583	1,583	577,736
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.13	0.33	0.37	71.4	1.03	2.59	2.89	554

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)
Unrefrigerated Warehouse-No Rail	475,846	204	0.0330	0.0040	249,578
General Office Building	105,843	204	0.0330	0.0040	118,751
Parking Lot	79,077	204	0.0330	0.0040	0.00
City Park	0.00	204	0.0330	0.0040	0.00

5.11.2. Mitigated

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)
Unrefrigerated Warehouse-No Rail	475,846	204	0.0330	0.0040	249,578
General Office Building	105,843	204	0.0330	0.0040	118,751
Parking Lot	79,077	204	0.0330	0.0040	0.00
City Park	0.00	204	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)
Unrefrigerated Warehouse-No Rail	10,984,375	0.00
General Office Building	888,669	0.00
Parking Lot	0.00	0.00
City Park	0.00	202,552

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	10,984,375	0.00
General Office Building	888,669	0.00
Parking Lot	0.00	0.00
City Park	0.00	202,552

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	44.6	—
General Office Building	4.65	—
Parking Lot	0.00	—
City Park	0.01	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	44.6	—
General Office Building	4.65	—
Parking Lot	0.00	—
City Park	0.01	—

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
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.14.2. Mitigated

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
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

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

5.15.2. Mitigated

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
Emergency Generator	Diesel	1.00	0.00	50.0	500	0.73

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

5.18.1.2. Mitigated

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

5.18.1.2. Mitigated

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)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	matching the Work Days per Phase of previous CalEEMod run/project details
Operations: Water and Waste Water	providing outdoor water use from previous CalEEEMod run for landscaped areas
Operations: Fleet Mix	adjustments for warehouse to account for heavy trucks
Operations: Emergency Generators and Fire Pumps	applicant provided information
Operations: Vehicle Data	matching previous CalEEMod model

Appendix C

Traffic Impact Analysis

KITTELSON & ASSOCIATES

SAN LEANDRO 14143 WASHINGTON AVENUE INDUSTRIAL TRAFFIC IMPACT ANALYSIS – *DRAFT*

SAN LEANDRO, CA

May 2022

Inside front cover

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San Leandro 14143 Washington Avenue Industrial Traffic Impact Analysis – *DRAFT*

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Section 1

Executive Summary

EXECUTIVE SUMMARY

This report presents the findings of the transportation impact analysis conducted for the proposed warehousing development (Project) located at 14143-14273 Washington Avenue (APN: 077B 1222 003 03,et al, and Plan Check # PLN21-0031) in the City of San Leandro, California. The purpose of the study is to analyze and address traffic operations issues associated with the proposed Project.

The results of this study indicate that the project does not significantly impact traffic operations after the construction of the Project. WB-50 and WB-67 trucks would be accommodated at the Project driveways (Driveway B) and on-site; emergency vehicles would be accommodated and both site driveways.

FINDINGS

The following are the key findings of the traffic impact analysis conducted by Kittelson & Associates, Inc.

Proposed Development Plan

The Project is an approximately 47,500 -square-foot warehouse and a 5,000 square foot office, for a combined of a total 52,500 square foot project site area. The Project anticipates uses such as warehousing and industrial uses. The Project is proposing two project full access driveways on Washington Avenue – the northern driveway (Driveway A) is proposed to serve mostly automobile trips while the southern driveway (Driveway B) would be dedicated to truck traffic to access the loading docks at the rear of the building and some automobile traffic as well.

For purposes of this analysis, the total number of Project-generated trips were evaluated for Existing Plus Project and Cumulative (2035) Plus Project conditions.

Traffic Operations

Based on traffic operation results, some of the intersections do not operate within the threshold under Existing and Cumulative conditions however, none of the study intersections cause significant impact under Existing, Existing Plus Project, Cumulative, and Cumulative Plus Project traffic conditions during the weekday AM and PM peak hour.

Table 1 summarizes traffic operations for the study intersections under year 2022 Existing traffic conditions, year 2022 Existing Plus Project traffic conditions, year 2035 Cumulative traffic conditions, and year 2035 Cumulative Plus Project traffic conditions. Based on traffic operation results, some of the intersections do not operate within the threshold under Existing and Cumulative conditions however, none of the study intersections cause significant impact under Existing, Existing Plus Project, Cumulative, and Cumulative Plus Project traffic conditions during the weekday AM and PM peak hour.

Table 1. Study Intersections Operations Summary

#	North-South Street	East-West Street	Control Type[1]	Peak Hour	Existing			Existing Plus Project			Impact?	Cumulative			Cumulative Plus Project			Impact?
					V/C[2]	Delay	LOS[3]	V/C	Delay	LOS		V/C	Delay	LOS	V/C	Delay	LOS	
1	Washington Avenue	San Leandro Boulevard	Signal	AM	0.73	51.4	D	0.73	52.7	D	NO	0.90	103.0	*F*	0.92	103.6	*F*	NO
				PM	0.52	41.9	D	0.53	41.7	D	NO	0.73	76.0	*E*	0.73	75.6	*E*	NO
2	Washington Avenue	143rd Avenue	Signal	AM	0.66	10.4	B	0.67	10.6	B	NO	0.76	12.5	B	0.77	13.1	B	NO
				PM	0.49	7.1	A	0.49	7.1	A	NO	0.58	7.3	A	0.59	7.3	A	NO
3	Washington Avenue	Halcyon Drive/Floresta Boulevard	Signal	AM	0.73	80.4	*F*	0.74	79.9	*E*	NO	0.86	77.4	*E*	0.87	77.2	*E*	NO
				PM	0.58	41.6	D	0.59	41.6	D	NO	0.72	45.4	D	0.72	45.4	D	NO
A	Washington Avenue	Driveway A	TWSC	AM	-	-	-	0.01	14.0	B	NO	-	-	-	0.01	17.3	C	NO
				PM	-	-	-	0.10	18.2	C	NO	-	-	-	0.16	27.1	D	NO
B	Washington Avenue	Driveway B	TWSC	AM	-	-	-	0.00	10.0	B	NO	-	-	-	0.03	10.6	B	NO
				PM	-	-	-	0.01	12.3	B	NO	-	-	-	0.01	13.9	B	NO

[1] Intersection control type: TWSC = two-way-stop-control, Signal = Traffic Signal | [2]V/C = volume-to-capacity ratio (HCM 2000) | [3]LOS = Intersection Level of Service | Intersections that do not meet agency thresholds for LOS D (signal); Intersections operating at unacceptable level of service under cumulative conditions without the project have a significant impact if the project increases the average delay at unsignalized intersections by more than 5 seconds, or increases the v/c ratio by 0.05 or more at a signalized intersection are shown highlighted and in bold and *italics.* (Bold denotes exceeds City standard. Bold and Shaded denotes Project Impact).

Existing Conditions

- Under Existing conditions, all study intersections would operate acceptably at LOS D or better during the weekday AM and PM peak hours except:
    - Washington Avenue/Halcyon Drive/Floresta Boulevard during the weekday AM peak period (LOS F).
- Turn queues at Washington Avenue/San Leandro Boulevard and Washington Avenue/Halcyon Drive/Floresta Boulevard exceed capacity of their left-turn and right-turn pockets as presented in Table 5 and Table 6 of the study.
- Under Existing Plus Project conditions with the addition of Project traffic, all study intersections would continue to operate acceptably at LOS D or better during the weekday AM and PM peak hours except:
    - Washington Avenue/Halcyon Drive/Floresta Boulevard during the weekday AM peak period (LOS E). However, the addition of the Project does not result in a significant impact as the increase in v/c ratio is less than 0.05.
- Left-turn queues and right-turn queues that will exceed their respective turn pockets during the AM and PM peak hours under Existing conditions without the Project would experience minimal change in length with the addition of the Project traffic.
- Washington Avenue/Driveway A and Washington Avenue/Driveway B (Intersection A & B) operate within the threshold. Around three northbound left-turning vehicles are expected at Driveway B during the weekday AM peak hours under Existing Plus Project conditions.

Vehicle Miles Traveled Impact Analysis

- The Vehicle Miles Traveled (VMT) analysis was conducted using the Alameda County transportation Commission (ACTC) guidelines to determine if the project constitutes a VMT impact under SB-743.
- The average target (with a 15% reduction from the target value) VMT per employee in the Central Planning Area is 16.3, and the project area zone has an average VMT per employee of 15.23. Since the project is located in an area with below average VMT based on the threshold, the project would have a less-than-significant VMT impact and can be screened out of a detailed VMT analysis.

Trip Generation and Distribution

- The Project would generate a net new 329 daily trips, 44 AM peak hour trips (40 inbound/4 outbound) and 40 PM peak hour trips (4 inbound/36 outbound). The distribution of Project trips was developed using the Countywide Model.

Cumulative (2035) Conditions

- Under Cumulative (2035) Conditions, all study intersections would operate acceptably at LOS D or better during the weekday AM and PM peak hours except:
    - Washington Avenue/San Leandro Boulevard during the weekday AM peak period (LOS F) and weekday PM peak period (LOS E)

  - Washington Avenue/Halcyon Drive/Floresta Boulevard during the weekday AM peak period (LOS E)

- Turn queues at all study intersections exceed capacity of their left-turn and right-turn pockets as presented in Table 14 and Table 15 of the study.
- Under Cumulative (2035) Plus Project conditions with the addition of Project traffic, all study intersections would continue to operate acceptably at LOS D or better during each peak hour except:
  - Washington Avenue/San Leandro Boulevard during the weekday AM peak period (LOS F) and weekday PM peak period (LOS E)
  - Washington Avenue/Halcyon Drive/Floresta Boulevard during the weekday AM peak period (LOS E)
- Left-turn queues and right-turn queues that will exceed their respective turn pockets during the AM and PM peak hours under Cumulative (2035) conditions without the Project would experience minimal change in queue length with the addition of the Project traffic.
- Washington Avenue/Driveway A and Washington Avenue/Driveway B (Intersection A & B) operate within the threshold. Around three northbound left-turning vehicles are expected at Driveway B during the weekday AM peak hours under Cumulative Plus Project conditions.

Site Access and On-Site Circulation

- Analysis of truck turns at the driveways demonstrated that Driveway B on Washington Avenue can accommodate WB-50 and WB-67 trucks. Both Driveway A and Driveway B can accommodate emergency vehicles. Based on the roadway width and width at Driveway B shown in the site plan, WB-50 and WB-67 trucks exiting the Driveway B should do so first before trucks enter the driveway.
- Analysis of on-site truck maneuvers demonstrated that the drive aisles can accommodate circulation of WB-67 trucks, WB-50 trucks and emergency vehicles, including maneuvering to back a trailer to a dock.

Truck Operations

- The Project would generate a total of 56 daily truck trips, 8 AM peak hour trips (7 inbound/1 outbound) and 7 PM peak hour trips (1 inbound/6 outbound). Therefore, the Project would generate approximately 5 trucks per hour on a daily basis

Parking

- Based on the site plan, the Project provides 69 parking stalls, which meets the City requirement of 53 spaces.

Transit, Bicycle, and Pedestrian Facilities

- Due to its industrial nature, the Project is expected to generate negligible transit, bicycle, and pedestrian trips. As such, the Project's impact on transit, bicycle, and pedestrian facilities is expected to be minimal and not significant during Existing Plus Project and Cumulative (2035) Plus Project conditions.

Alameda CTC Congestion Management Plan

- The project generates less than 50 vehicle trips in the PM peak hour, and therefore a CMP analysis is not required.

RECOMMENDATIONS

- Based on the findings of the traffic impact analysis conducted, no recommendations are suggested for this study.

Section 2

Introduction

INTRODUCTION

This report presents the findings of the transportation impact analysis conducted for the proposed warehousing development (Project) located at 14143-14273 Washington Avenue (APN: 077B 1222 003 03,et al, and Plan Check # PLN21-0031) in the City of San Leandro, California (City). The purpose of this study is to analyze and address traffic operations issues associated with the proposed Project.

PROJECT DESCRIPTION

The Project is an approximately 47,500 square-foot warehouse and a 5,000 square foot office, for a combined of a total 52,500 square foot project site area. To be conservative, the team assumed 52,500 square feet of General Light Industrial facility. The Project anticipates uses ranging from warehousing to wholesale or retail distribution. The Project is proposing two project full access driveways on Washington Avenue – the northern driveway is proposed to serve mostly automobile trips while the southern driveway would be dedicated to truck traffic to access the loading docks at the rear of the building and some automobile traffic as well.

The Project is located in the southern part of San Leandro in a predominantly industrial area surrounded by residential neighborhoods. Access to the regional network for trucks and autos is provided by I-880 and I-238 to the south, and I-580 to the east, for autos only. Bay Fair Center is immediately to the east via Halcyon Drive and it is anticipating a planned major upgrade via the current Bay Fair Specific Plan and EIR.

Figure 1 shows the Project's location. Figure 2 shows the site plan.

STUDY OBJECTIVES

This study analyzes the transportation-related effects of the Project, in particular:

- Operations and queuing at three signalized most likely to be impacted;
- Vehicle queuing at driveways;
- Operation at transit, bike, and pedestrian facilities;
- Site access; and
- On-site circulation and parking.
- VMT Assessment

ANALYSIS METHODOLOGIES AND LEVEL OF SERVICE STANDARDS

The assessment of the Project is based on transportation impact criteria per the City of San Leandro. "Levels of service" describe the operating conditions experienced by motorists. Level of service (LOS) is a qualitative measure of the effect of a number of factors, including speed and travel time, traffic interruptions, freedom to maneuver, driving comfort, and convenience. LOS are designated A through F, from best to worst, which cover the entire range of traffic operations that might occur. LOS A through E generally represent traffic volumes at less than roadway capacity while LOS F represents over-capacity and/or forced-flow conditions. Per City guidelines, LOS D is generally considered to represent the minimum acceptable design standard.

Intersection LOS

Intersection analysis was conducted using the operational methodology outlined in the *Highway Capacity Manual (HCM) 6th Edition* at all intersections, as operationalized by Synchro version 11 software tool. The HCM methodology assigns a level of service (LOS) grade to an intersection based on the delay for vehicles at the intersection, ranging from LOS A to LOS F; LOS A signifies very slight delay with no approach phase fully utilized, while LOS F signifies very high delays and congestion, frequent cycle failures, and long queues. For signalized

and all-way stop-controlled intersections, the average control delay for all vehicles is assessed; for two-way stop-controlled intersections, the intersection approach with the highest delay is utilized.

Table 2 presents LOS based on the Highway Capacity Manual (HCM) 6th edition definitions and Table LU-1 (Level Of Service Interpretation For Intersections and Freeways) of the San Leandro 2035 General Plan.

Table 2: Level of Service Standards

LOS	Description of Traffic Conditions at Intersections	Delay Per Vehicle (Seconds)	
		Signalized Intersection	Unsignalized Intersection
A	Free flowing. Most vehicles do not have to stop.	< 10.0	< 10.0
B	Minimal delays. Some vehicles have to stop, although waits are not bothersome.	> 10.0 to 20.0	> 10.0 to 15.0
C	Acceptable delays. Significant numbers of vehicles have to stop because of steady, high traffic volumes. Still, many pass without stopping.	> 20.0 to 35.0	> 15.0 to 25.0
D	Tolerable delays. Many vehicles have to stop. Drivers are aware of heavier traffic. Cars may have to wait through more than one red light. Queues begin to form, often on more than one approach.	> 35.0 to 55.0	> 25.0 to 35.0
E	Significant delays. Cars may have to wait through more than one red light. Long queues form, sometimes on several approaches.	> 55.0 to 80.0	> 35.0 to 50.0
F	Excessive delays. Intersection is jammed. Many cars have to wait through more than one red light, or more than 60 seconds. Traffic may back up into "up-stream" intersections.	> 80.0	> 50.0

Source: *Highway Capacity Manual, 6th Edition*

Significant Impact Threshold

The San Leandro General Plan 2035 establishes the standard for intersection operations at LOS D. An impact is considered significant for intersections when the Project causes the facility to change from LOS D or better to LOS E or worse. LOS D may only be exceeded where the following circumstances exists:

- Road improvements are not possible because the necessary right-of-way does not exist and cannot be acquired without significant impact on adjacent buildings and properties
- The intersection or road segment is in a pedestrian district, such as Downtown where the priority is on pedestrian, bicycle, and public transit access rather than vehicle traffic.

For facilities that are, or will be (cumulative condition), operating at an unacceptable level of service without the Project, an impact is considered significant if the Project increases the volume-to-capacity (v/c) ratio by 0.05 or more at a signalized intersection; or increases the average delay at unsignalized intersections by more than 5 seconds.

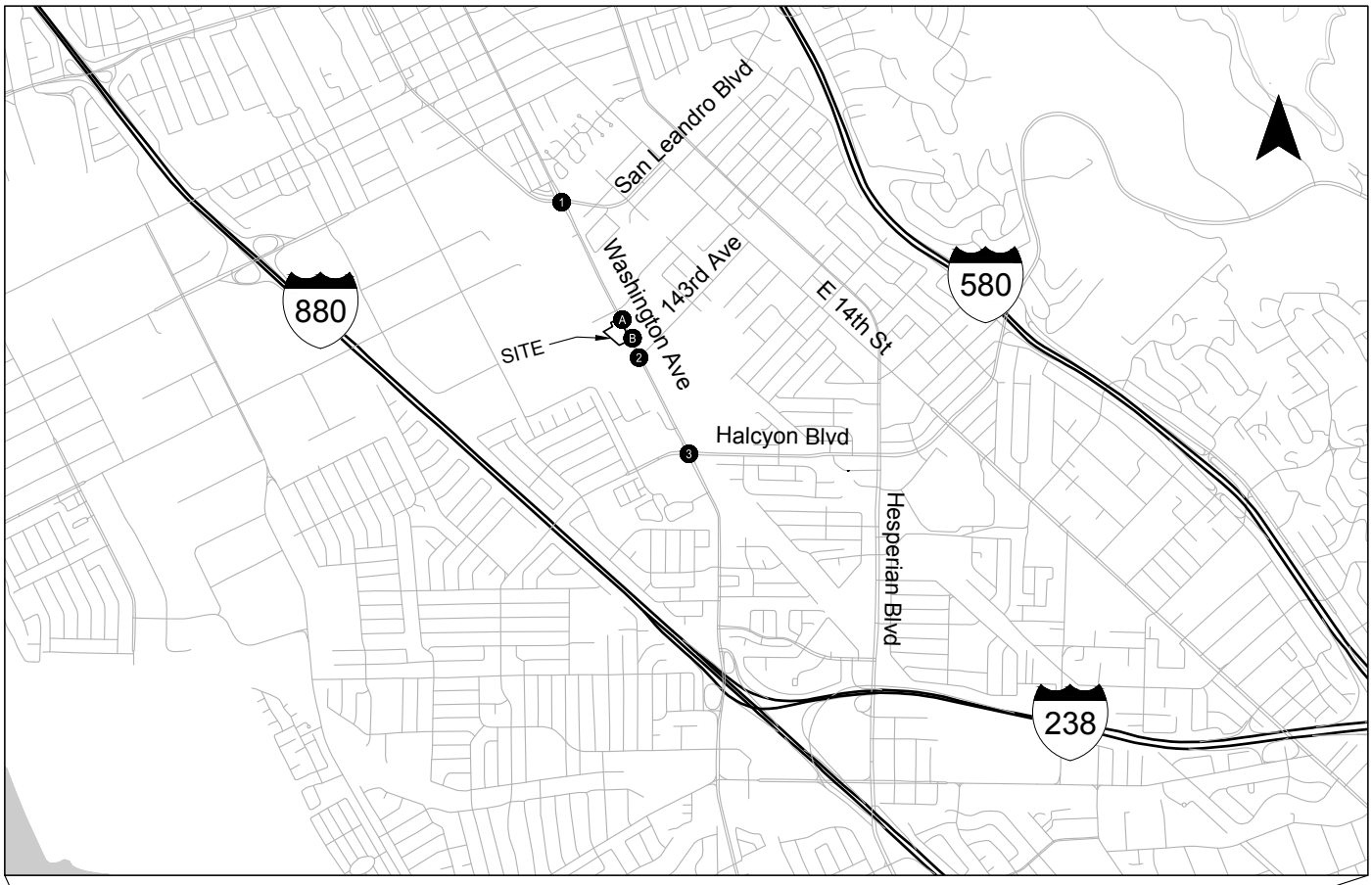
Queuing Analysis

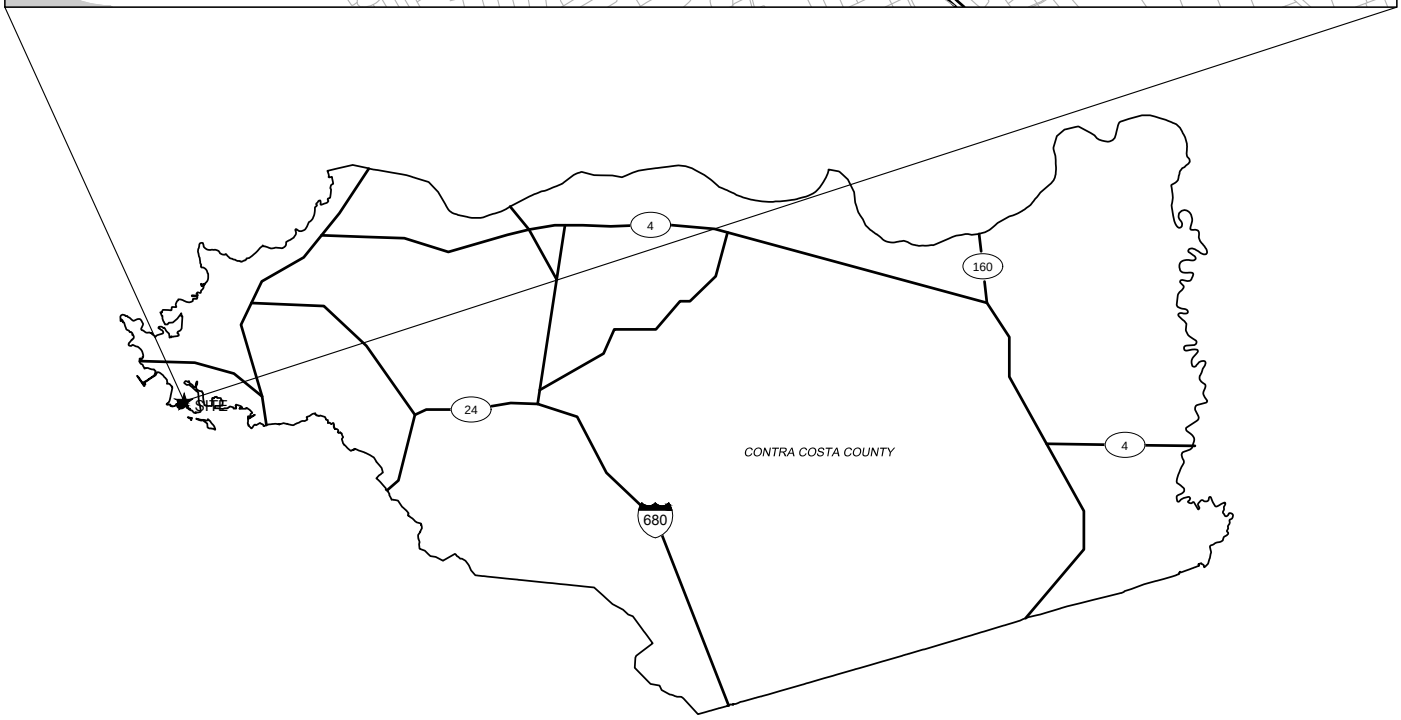
Intersection queueing compared 95th percentile queues with existing available storage lengths. These 95th percentile queues at the study intersections were reviewed to identify locations where they may exceed the available storage. The 95th percentile queue lengths represent queues that have only a 5-percent probability of exceeding the available storage lengths. This measure is typically used in traffic engineering as a

conservative measure of queuing, and since it only has a 5-percent probability of being exceeded, the average driver would likely experience shorter queue lengths than what is being reported.

Additional Analysis

The analysis also considers the Project's potential effects on site access and circulation, truck operations, parking, transit operations, bicycling and walking.





(##) - Study Intersections

Project Location
San Leandro, California

Figure
1

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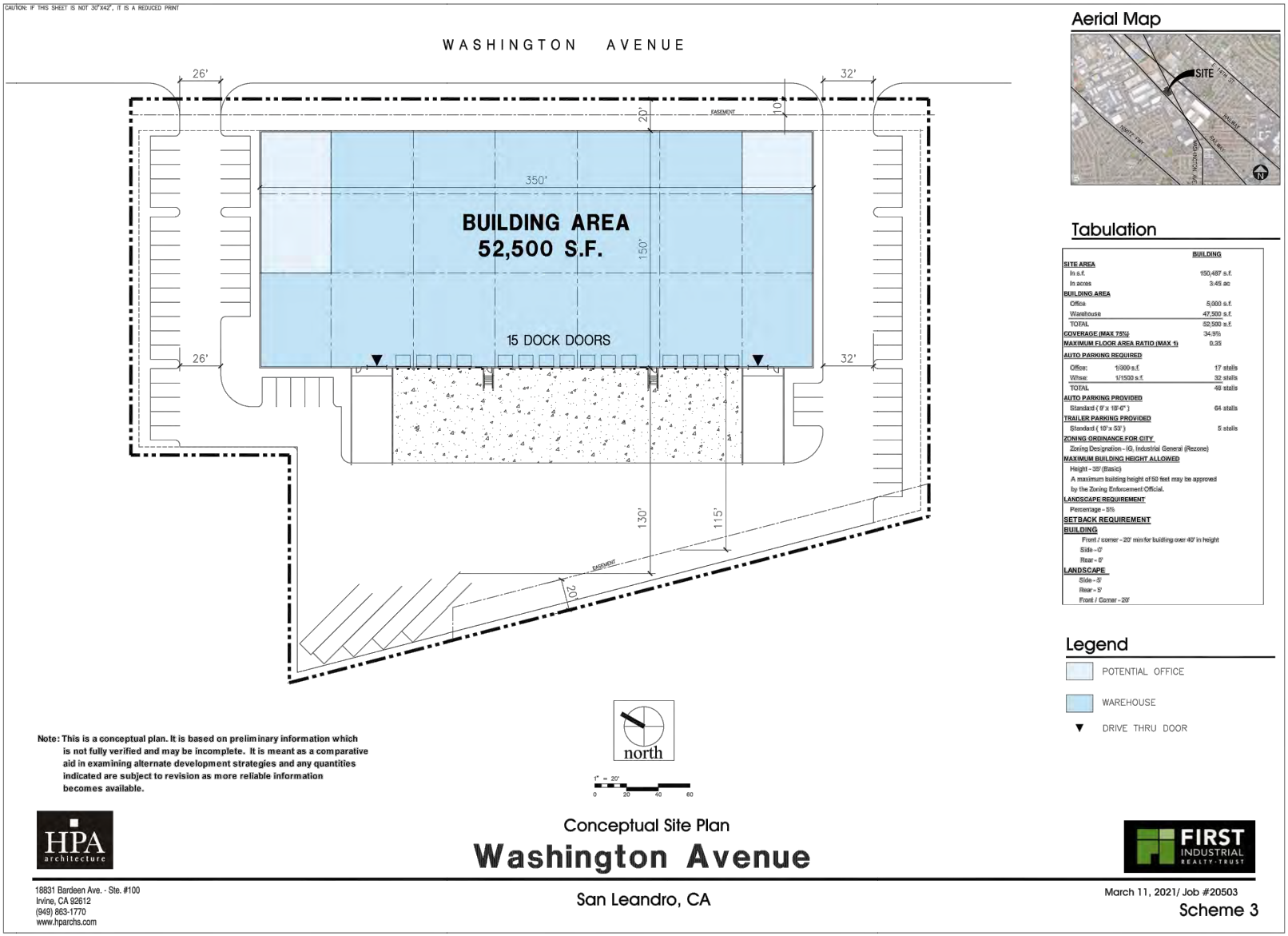

Proposed Site Plan
San Leandro, California

Figure
2

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SCOPE OF THE REPORT

The analyses performed for this report determine the transportation-related effects of the proposed Project and were prepared in accordance with the scope of work prepared on March 22, 2022, City of San Leandro Generic Scope of Work for Traffic Impact Analysis (2016), and discussions with City staff.

The scoping agreement memorandum is presented in Appendix A.

This report evaluates the following transportation elements for the site:

- Roadway Network Overview
- Traffic Conditions: LOS analysis was performed to assess the performance of the circulation system for the weekday morning (AM) and evening (PM) peak hours for the following four scenarios:
    - *Intersection operations analysis for 3 signalized intersections under Existing Conditions, Existing Plus Project Conditions, Cumulative Conditions and Cumulative Plus Project Conditions*
    - *Intersection operations analysis for 2 unsignalized full access driveways under Plus Project Conditions, and Cumulative Plus Project Conditions*
- Vehicle Miles Traveled Impact Analysis
- Project Trip Generation and Distribution
- Site Circulation and Analysis
- Truck Operations
- Parking Needs Assessment
- Transit, Bicycle and Pedestrian Facilities Evaluation

STUDY INTERSECTIONS

The following 3 intersections were selected for morning weekday (AM) and evening weekday (PM) peak hour analysis based on their proximity to the Project site and the time of day that travel to and from the Project site would have the greatest effect on the transportation system:

- Intersection #1: Washington Avenue & San Leandro Boulevard
- Intersection #2: Washington Avenue & 143rd Avenue
- Intersection #3: Washington Avenue & Halcyon Drive/Floresta Boulevard

These intersections are shown in Figure 1.

Section 3

Existing Conditions

EXISTING CONDITIONS

The Existing Conditions analysis identifies the site conditions and current operational and geometric characteristics of the study intersections as well as transit services, bicycle, and pedestrian facilities near the project site.

ROADWAY NETWORK

The existing roadway network in the study area is comprised of the freeway system that serves Alameda County and an extensive street system made up of arterial and local roads.

Freeways

Interstate 880 (I-880) is a nine-lane freeway in the vicinity of the Project with a posted speed limit of 65 miles per hour. The north-south freeway connects San Leandro with nearby cities, such as Hayward and Oakland, and regional destinations, such as Fremont and San Jose. It also provides access to the greater freeway network with direct connections to Interstates 80, 580, 980, 238, US Highway 101, and State Routes 92, 237 and 17. The Project site is served by the interchange at Washington Avenue. The average daily traffic on I-880 in the vicinity of Washington Avenue ranges between 190,000 and 237,500 vehicles per day[1]. Bicycling and walking are not allowed on this facility. I-880 is the primary route for large trucks from the Airport and Port to San Leandro.

Interstate 238 (I-238) is a seven-lane freeway in the vicinity of the Project with a posted speed limit of 65 miles per hour. The east-west freeway serves as a connection between Interstate 880 and Interstate 580. The Project site is served by the interchange at Washington Avenue. The average daily traffic on I-880 in the vicinity of Washington Avenue ranges between 162,000 and 102,000 vehicles per day[2]. Bicycling and walking are not allowed on this facility.

Interstate 580 (I-580) is an eight-lane freeway in the vicinity of the Project with a posted speed limit of 65 miles per hour. The north-south freeway connects San Leandro with nearby cities, such as Oakland and Pleasanton, and regional destinations, such as Stockton. It also provides access to the greater freeway network with direct connections to Interstates 5, 205, 238, 680, 80 and 880, and State Routes 13, 24, and 84. The Project site is served by the interchange at Fairmont Drive. The average daily traffic on I-880 in the vicinity of Fairmont Drive ranges between 119,300 and 143,500 vehicles per day[3]. Bicycling and walking are not allowed on this facility. Trucks are prohibited on the section of I-580 north of I-238.

Arterials

Washington Avenue is an east-west road that has four lanes in the Project vicinity. The posted speed limit is 35 miles per hour. It extends from the Grant Avenue to W Juana Avenue in Downtown San Leandro. Sidewalks are located along the east and west sides of Washington Boulevard in the study area, with the exception of the overpass between Springlake Drive to Beatrice Street, where there is a sidewalk only on the west side of the roadway. It is also designated as a through truck route.

Halcyon Drive is a four-lane, east-west residential arterial with a posted speed limit of 40 miles per hour in the Project vicinity. It spans from Hesperian Drive to Washington Avenue. To the east, Halcyon Drive transitions to

[1] 2019 Traffic Volumes, California Department of Transportation (Caltrans) http://www.dot.ca.gov/trafficops/census/
[2] 2019 Traffic Volumes, California Department of Transportation (Caltrans) http://www.dot.ca.gov/trafficops/census/
[3] 2019 Traffic Volumes, California Department of Transportation (Caltrans) http://www.dot.ca.gov/trafficops/census/

Fairmont Drive, and to the west, it transitions to Floresta Boulevard. Halcyon Drive is designated as a local truck route. Sidewalks are provided on both sides of the street in the study area.

San Leandro Boulevard is a north-south arterial connecting the City of San Leandro to Fruitvale near Alameda. In the Project vicinity, it is a four-lane road with a landscaped median separating the northbound and southbound lanes. The posted speed is 40 miles per hour, and it is a designated truck through route. Sidewalks are provided on both sides of the street, and parking is permitted along some segments.

Collector

143rd Avenue (collector) is a two-lane, east-west collector, connecting Washington Avenue and 14th Street. The posted speed limit is 30 miles per hour, and parking is permitted on both sides of the street. It is also a designated local truck route and crosses over railroad tracks about 650 feet east of the intersection at 143rd Avenue and Washington Avenue.

Pedestrian Facilities

At the Project site, the main pedestrian facilities are an eight-foot sidewalk (west side) and seven-foot sidewalk (east side) on either side of Washington Avenue along the west side of the site. There are two at-grade railroad crossings (one active, one inactive) located south of the Project site. Two signalized intersections (Washington Avenue/139th Avenue and Washington Avenue/143rd Avenue) with marked crosswalks are located within one quarter of a mile of the Project site.

Bicycle Facilities

Bicycling facilities are important components of the transportation network in the study area. They offer non-vehicular opportunities for commuting and also provide connections to BART and bus stations that allow access to the regional's transit network.

Bicycle facilities are defined by the following four classes in Chapter 1000 of California Department of Transportation's Highway Design Manual:

Class I (Bike Path) – Provides a completely separated facility designed for the exclusive use of bicyclists and pedestrians with crossing points minimized. Bike paths typically serve corridors not served by streets and highways or where wide right of way exists, permitting such facilities to be constructed away from the influence of parallel streets.

Class II (Bike Lane) – Provides a restricted right-of-way designated lane for the exclusive or semi-exclusive use of bicycles with through travel by motor vehicles or pedestrians prohibited, but with vehicle parking and cross-flows by pedestrians and motorists permitted. Bike lanes are established along streets in corridors where there is significant bicycle demand, and where there are distinct needs that can be served by them.

Class III (Bike Route) – Shared facilities which provide continuity to other bicycle facilities (usually Class II bikeways) or designate preferred routes through high demand corridors.

Class IV (Separated Bikeways) – Provides a exclusive right-of-way including a separation required between the separated bikeway and the through vehicular traffic

There are sections of Class II bikes lanes in the Project vicinity. There are marked Class II bike lanes on:

- Washington Avenue between 139th Avenue Drive and 143rd Avenue,
- Washington Avenue between Caliente Drive and Anza Way,
- Floresta Boulevard/Farnsworth Street between Washington Avenue and Corvallis Street,
- Fremont Avenue between Floresta Boulevard and Alvarado Street,
- Halcyon Drive between Hesperian Boulevard and the railroad crossing immediately west of Adason Drive,

- San Leandro between East 14th Street and Creekside Plaza, and
- Hesperian Boulevard/Bancroft Avenue between East 14th Street and Springlake Drive.

There are also several Class III bike routes that provide connections between bike lane facilities. These include:

- Bancroft Avenue between East 14th Street and 146th Avenue,
- Alvarado Street between Fremont Avenue and Teagarden Street,
- Castro Street between Washington Avenue and E 14th Street,
- Sybil Avenue between E 14th Street and Grand Avenue,
- 143rd Avenue between Washington Avenue and Bancroft Avenue, and
- 150th Avenue between Hesperian Boulevard and East City Limits.

The San Leandro Bicycle and Pedestrian Master Plan (2018 Update) proposed a number of improvements to better connect the existing bicycle network in the city, including several segments in the study area. The Plan proposed Class II bike lanes that would close gaps on Halcyon Drive between Washington Avenue and the railroad tracks, and on Washington Avenue between Halcyon Drive and 143rd Avenue. The Plan also proposed Class I bike paths along the railway tracks to connect the proposed Class II facility on Washington Avenue and Halcyon Drive to the Class II facility on San Leandro. The proposed Class I bike paths would not only connect the San Leandro and Bay Fair BART stations, but would also provide access to Halcyon Drive and Washington Avenue in the Project area.

Transit Service

The transit system in the study area includes bus and rail services provided by Alameda-Contra Costa Transit District (AC Transit) and Bay Area Rapid Transit (BART). As presented in Table 3, AC Transit provides three routes in the study area, Line 10, Line 28 and Line 40, which operate on weekdays and weekends. Line 10 runs along on E 14th Street on the east side of the Project site and connects to the San Leandro BART station. Line 28 runs along Halcyon Drive on the south side of the Project site and connects to the San Leandro BART station a swell. Line 40 runs along Bancroft Avenue on the east side of the Project site and connects to the Bayfair BART station. Both the San Leandro and Bayfair BART stations are less than 2 miles from the Project site. There are two bus stops in close proximity to the Project site. Both stops are served by Line 28 and is located along Halcyon Drive/Floresta Boulevard, located south of the Project. The Washington Avenue/Halcyon Drive stop is about 400 feet from Washington Avenue/Halcyon Drive/Floresta Boulevard (signalized intersection with marked crossings) and the Fremont Avenue/Floresta Boulevard stop is about 600 feet from the intersection; the Project site is about 0.5 miles away from Washington Avenue/Halcyon Drive/Floresta Boulevard.

Table 3: AC Transit Bus Service in the Study Area

Route	Serving	Main Timepoints	Day	Times	
10	San Leandro, Hayward	San Leandro BART; Bay Fair BART; Hayward BART	Weekday	First	4:58 AM
				Last	12:39 AM
				Frequency	20 minutes
			Weekend	First	6:20 AM
				Last	12:28 PM
				Frequency	20 minutes

28	San Leandro, Castro Valley, Hayward	San Leandro BART; Castro Valley BART; Bay Fair BART; Hayward BART	Weekday	First	5:45 AM
				Last	10:37 AM
				Frequency	60 minutes
			Weekend	First	6:00 AM
				Last	10:54 PM
				Frequency	60 minutes
40	Oakland, San Leandro	Bay Fair BART; Eastmont Transit Center	Weekday	First	5:18 AM
				Last	12:26 PM
				Frequency	20 minutes
			Weekend	First	5:25 AM
				Last	12:14 PM
				Frequency	30 minutes

Source: AC Transit website, www.actransit.org, accessed May 20, 2022
Kittelson & Associates, Inc., 2022

Railroad Crossing

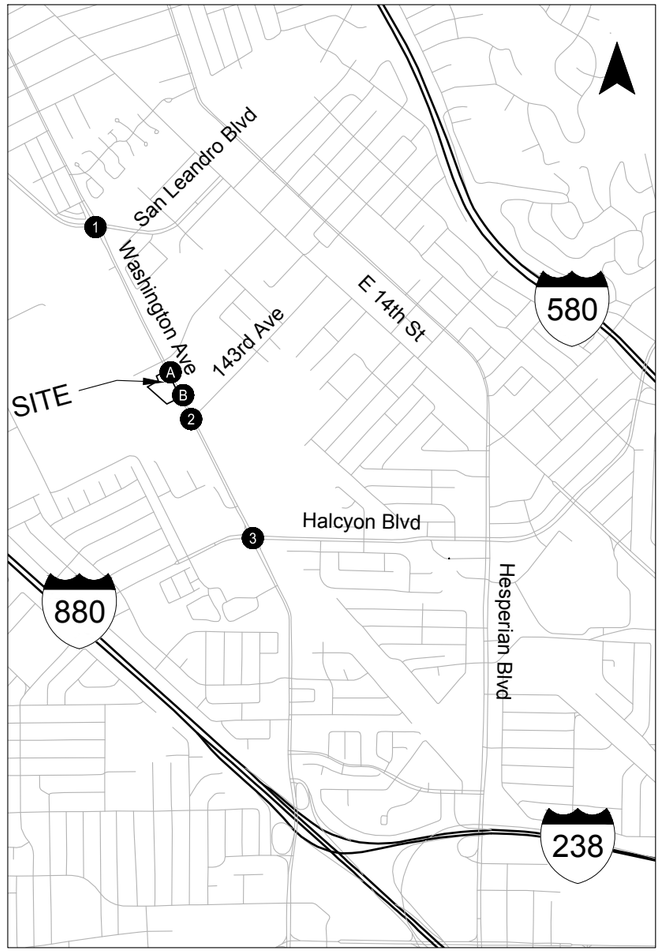
In the study area, Washington Avenue and Halcyon Drive are bisected by at-grade railroad crossings. As observed using aerial photography, all of the at-grade crossings in the study area appear to be provided with adequate features to facilitate traffic crossings for people driving, biking, and walking, including concrete pavement beds, warning bells, and crossing gates. There are two at-grade railroad crossings near the Project site. To the south of the Project, there is a rail crossing just east of the intersection of Washington Avenue and Halcyon Drive. There is another railroad crossing west of the Project site, just north of the Washington Avenue and Halcyon Drive intersection (north of Chapman Road).

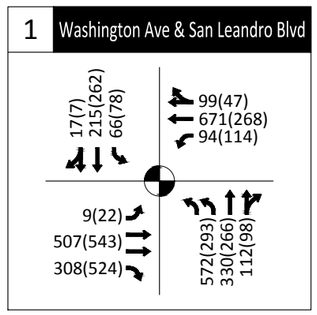
EXISTING TRAFFIC OPERATIONS

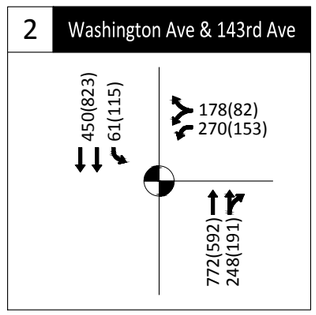
The three study intersections listed in Section 2 and shown in Figure 1 were selected for morning weekday (AM) and evening weekday (PM) peak hour analysis based on their proximity to the Project site and the time of day that travel to and from the Project site would have the greatest effect on the transportation system.

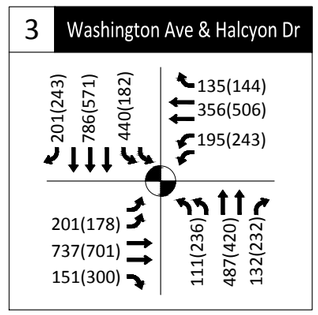
Due to Covid conditions, new counts were not available, so traffic counts collected for the San Leandro Business Center at 100 Halcyon Drive in June 2017 were used for intersections in order to establish a basis for analysis in this study. These counts were adjusted by 1% per year (5% total) to reflect 2022 conditions.

The existing geometries and peak hour volumes for Existing Conditions are shown in Figure 3. The traffic count sheets used in this study are presented in Appendix B.









AM(PM) - Traffic Volume

- Stop Sign

- Traffic Signal

Existing Lane Configurations and Peak Hour Volumes
San Leandro, California

Figure 3

KITTELSON & ASSOCIATES

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INTERSECTION OPERATIONS

The existing operations at the three study intersections are shown in Table 4. The results indicate that all study intersections are operating at LOS D or better during both peak hours, except:

- Intersection #3: Washington Avenue/ Halcyon Drive/Floresta Boulevard: During the weekday AM peak period, this intersection operates unacceptably at LOS F under Existing conditions.

The detailed LOS worksheets are presented in Appendix C.

Table 4: Existing Conditions Intersection Operations Results

#	North-South Street	East-West Street	Control Type	Peak Hour	Existing		
					V/C	Delay	LOS
1	Washington Avenue	San Leandro Boulevard	Signal	AM	0.73	51.4	D
				PM	0.52	41.9	D
2	Washington Avenue	143rd Avenue	Signal	AM	0.66	10.4	B
				PM	0.49	7.1	A
3	Washington Avenue	Halcyon Drive/Floresta Boulevard	Signal	AM	0.73	80.4	*F*
				PM	0.58	41.6	D

Synchro Version 11
HCM 6th Edition methodology
Definitions of "Delay," "LOS" and "V/C" are provided in Table 2.
Bold denotes exceeds City standard.
Bold and Shaded denotes Project Impact.
Source: Kittelson & Associates, 2022

Intersection Queues

The 95th percentile queue represents the near maximum expected queue for an intersection turn movement during a peak hour. As mentioned in Section 2, five percent (5%) of the peak hour would experience queues longer than the 95th percentile queues reported in Table 5 and Table 6. During the remaining 95 percent of the peak hour, queues would be shorter than the queue lengths reported in these tables.

As shown in the following tables, some left-turn and right-turn queues currently exceed their respective turn pockets during part of the AM and PM peak hours.

Eastbound right-turn queues during the weekday PM peak hour and westbound left-turn queues during the weekday AM and PM peak hour at Washington Avenue/San Leandro Boulevard exceed the storage capacity by one vehicle length. Westbound right-turn queues from the intersection of Washington Avenue/Halcyon Drive/Floresta Boulevard do not reach the railroad crossing located on Washington Avenue east of the intersection. Westbound left-turn queues are within the storage capacity but spill back beyond the railroad crossing located on Halcyon Drive east of the intersection so when a train is present, vehicles are required to stop east of the crossing gate.

The detailed queue worksheets are presented in Appendix C.

Table 5: 95th Percentile Queue under Existing Conditions, AM Peak Hour

#	Intersection		Eastbound		Westbound		Northbound		Southbound	
			Left	Right	Left	Right	Left	Right	Left	Right
1	Washington Avenue & San Leandro Boulevard	*Storage*	140	150	90	--	320	--	170	--
		Existing	22	47	108	--	#319	--	83	--
2	Washington Avenue & 143rd Avenue	*Storage*	--	--	140	--	--	--	150	--
		Existing	--	--	134	--	--	--	75	--
3	Washington Avenue & Halcyon Drive/Floresta Boulevard	*Storage*	280	170	450	40	300	225	400	100
		Existing	121	72	118	68	74	45	#382	0

Queue lengths reported in feet.
Bold text indicates queue length exceeds storage.
# indicates 95th percentile queue may be longer
Source: Kittelson & Associates, Inc., 2022

Table 6: 95th Percentile Queue under Existing Conditions, PM Peak Hour

#	Intersection		Eastbound		Westbound		Northbound		Southbound	
			Left	Right	Left	Right	Left	Right	Left	Right
1	Washington Avenue & San Leandro Boulevard	*Storage*	140	150	90	--	320	--	170	--
		Existing	36	182	120	--	125	--	90	--
2	Washington Avenue & 143rd Avenue	*Storage*	--	--	140	--	--	--	150	--
		Existing	--	--	60	--	--	--	106	--
3	Washington Avenue & Halcyon Drive/Floresta Boulevard	*Storage*	280	170	450	40	300	225	400	100
		Existing	102	123	134	67	134	59	110	0

Queue lengths reported in feet.
Bold text indicates queue length exceeds storage.
# indicates 95th percentile queue may be longer
Source: Kittelson & Associates, Inc., 2022

Section 4

Vehicle Miles Traveled Impact Analysis

VEHICLE MILES TRAVELED IMPACT ANALYSIS

The project is located at 14143-14273 Washington Avenue (APN: 077B 1222 003 03,et al, and Plan Check # PLN21-0031), in the City of San Leandro, CA. The proposed project consists of the development of one new warehousing spec building.

The project is 52,500 square feet (sf) of industrial/warehouse uses consisting of 47,500 sf of warehouse and 5,000 sf of office space. Access to the project site would be via two driveways along Washington Avenue. One driveway would be located at the northern portion of the site and the other driveway would be located at the southern portion of the site with access to Washington Avenue via both driveways. The project site and study area are shown in Figure 1. The proposed site plan is shown in Figure 2.

This section discusses the results of the Vehicle Miles Traveled (VMT) analysis using the Alameda County transportation Commission (ACTC) guidelines and OPR recommendations to determine if the project constitutes a VMT impact under SB-743.

EQUIVALENT LAND USE AND APPLICABLE THRESHOLDS AND SCREENING CRITERIA

Since the City of San Leandro has not developed VMT impact thresholds of significance that cover different land-use types, the ACTC VMT impact thresholds are used to evaluate VMT impacts. This is generally consistent with OPR's technical advisory, which provided recommended metrics and impact thresholds for residential, office, and retail projects, since they tend to have the greatest influence of land use projects on VMT in California.

ACTC's thresholds of significance by land use are shown in Figure 4. Given that the project is an industrial park with primarily industrial uses and other minor supporting uses, it was determined that the employment-industrial threshold (VMT per employee below the Central Planning Area average) would be appropriate to apply to the project. The Central Planning Area VMT per employee average threshold is appropriate for this project and not the Alameda County VMT per employee average threshold since at the County level, the North, South, East and Central Planning Areas are included which encompasses various land-use types including high-density areas with high transit, pedestrian and bike access whereas, at the Central Planning Area level, the majority of the area encompasses the City of San Leandro and City of Hayward and both cities have similar land-use type and density characteristics.

VMT SCREENING

OPR recommends before any VMT analysis is undertaken, the Project must undergo screening using the City's screening criteria to determine if it can be expected to cause a less-than-significant impact without conducting a detailed VMT study.

OPR and ACTC's suggested screening criterion for projects analyzed under the employment-industrial threshold is detailed below:

- If the project has less than 110 weekday daily trips per day
- If there is high-capacity transit (15-minute frequency) within half mile of the project available.
- If the project is located in areas with below Central Planning Area average VMT per employee

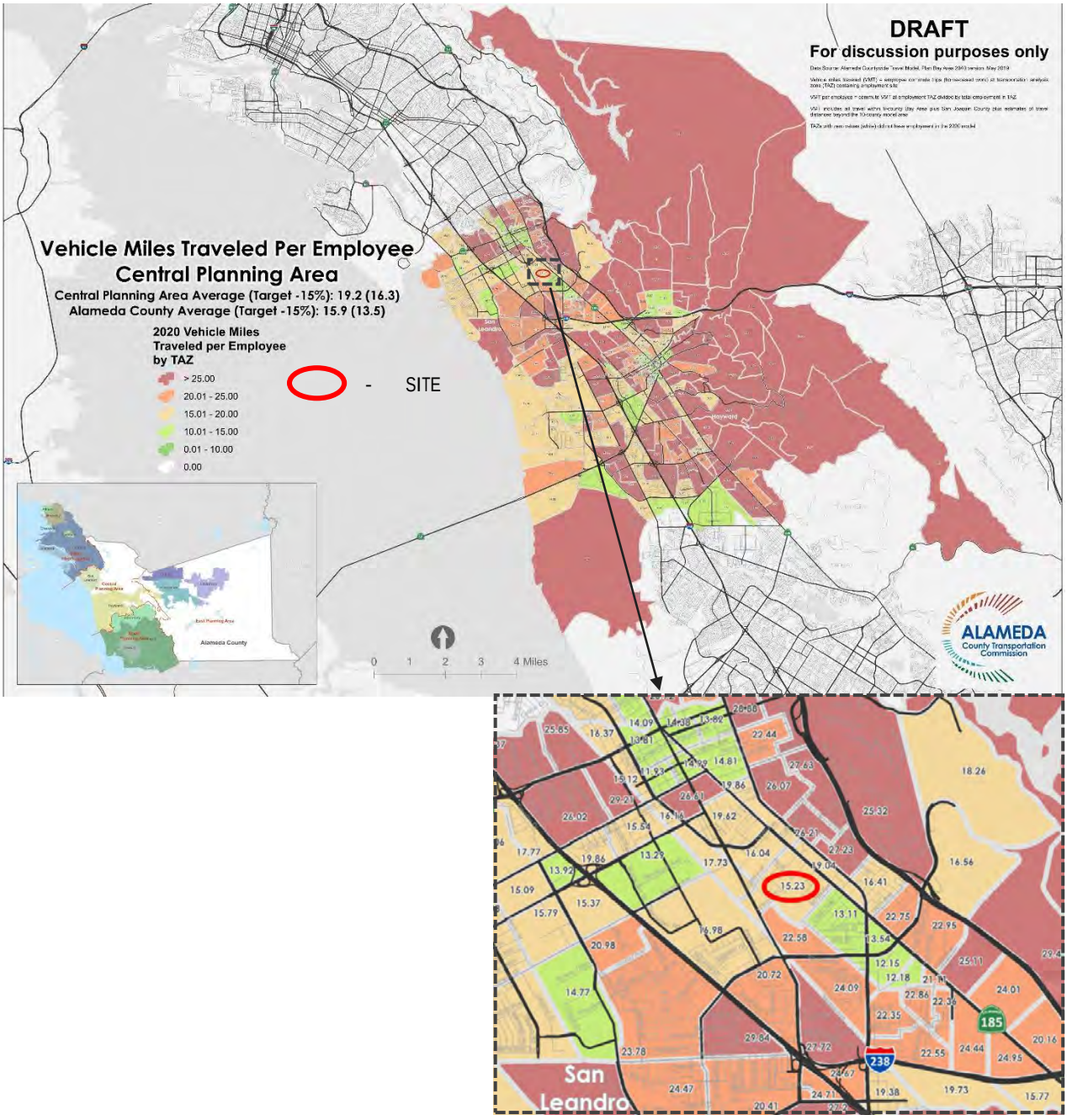
The low-VMT area screening criterion applies to this project and the project can be screened out of a detailed VMT analysis for the following reasons:

- As shown in Figure 4, the project is located in an area with below average VMT.

The average target (with a 15% reduction from the target value) VMT per employee in the Central Planning Area is 16.3, and the project area zone has an average VMT per employee of 15.23. Therefore, the project is in an area that reports less than the target (with a 15% reduction from the target value) VMT per employee. Therefore, VMT reductions would not be needed for the project.

The low-VMT area criterion for industrial projects can therefore be applied to the project and it would not require a detailed VMT analysis. Therefore, the project would have a less-than-significant VMT impact.

Figure 4: VMT Per Employee Central Planning Area Screening Map



Section 5

Traffic Impact Analysis

TRAFFIC IMPACT ANALYSIS

The transportation impact analysis identifies how the study area's transportation system will operate when the proposed Project is operational. The effects of traffic that would be generated by the Project during the typical weekday AM and PM peak hours were examined as follows:

- Site-generated trips were estimated for a 52,500-square-foot General Light Industrial facility.
- The site trip distribution was developed using the Alameda CTC Countywide Model as modified in 2016 for the City of San Leandro General Plan land use buildout (Countywide Model).
- Existing Plus Project conditions accounting for existing traffic volumes and new trips associated with the Project were analyzed during the AM and PM peak hours.
- Cumulative (2035) conditions accounting for increased future background traffic, both without and with Project trips, were analyzed during the AM and PM peak hours.
- Site access and circulation associated with the Project were analyzed.
- Potential mitigation measures and roadway improvements were identified to alleviate any impacts caused by Project traffic.

THRESHOLDS OF SIGNIFICANCE

The assessment of the Project is based on transportation impact criteria per the San Leandro General Plan 2035. The General Plan establishes the standard for intersection operations at LOS D. An impact is considered significant for intersections when the Project causes the operations to change from LOS D or better to LOS E or worse. LOS D may only be exceeded where the following circumstances exists:

- Road improvements are not possible because are necessary right-of-way does not exist and cannot be acquired without significant impact on adjacent buildings and properties
- The intersection or road segment is in a pedestrian district, such as Downtown where the priority is on pedestrian, bicycle, and public transit access rather than vehicle traffic.

For facilities that are, or will be (cumulative condition), operating at an unacceptable level of service without the Project, an impact is considered significant if the Project increases the volume-to-capacity (v/c) ratio by 0.05 or more at a signalized intersection; or increases the average delay at unsignalized intersections by more than 5 seconds.

PROJECT ANALYSIS

The Project is an approximately 47,500 square-foot warehouse and a 5,000 square foot office, for a combined of a total 52,500 square foot project site area. To be conservative, the team assumed 52,500 square feet of General Light Industrial facility. The Project is proposing a northern driveway, Driveway A, serving mostly automobile trips and fire access and southern driveway, Driveway B, dedicated to truck traffic to access the loading docks at the rear of the building on Washington Avenue. Since there is significant truck activity at this site, truck trips were converted to percent car equivalents (PCE) to be more conservative.

The number of trips estimated to be generated by the Project as well as how these trips would be distributed onto the transportation network is discussed in this section.

TRIP GENERATION

Trip generation by the Project was developed based on the ITE *Trip Generation Manual*, 10th edition. To be conservative, The ITE land use types most closely matching the Project is General Light Industrial (Land Use Code 110). Average trip generation rates were used to develop Project trip generation for the proposed Project. Table 7 and Table 8 document average trip generation rates and project trip generation respectively. Table 9 documents vehicle mix and Passenger Car Equivalent (PCE) factors that are used to calculate total project trips shown in Table 8. As summarized in Table 8, the Project would generate a net new 329 daily trips, 44 AM peak hour trips (40 inbound/4 outbound) and 40 PM peak hour trips (4 inbound/36 outbound).

Table 7: Average Trip Generation Rates

Land Use	ITE Code	Unit[2]	Trip Generation[1]						
			Daily	AM			PM		
				Total	In	Out	Total	In	Out
General Light Industrial	110	TSF	4.96	0.62	0.08	0.70	0.08	0.55	0.63

[1]Trip generation rates for peak hour of adjacent streets, per the ITE Trip Generation Manual 10th Edition.
[2]Thousand Square Feet

Table 8: Project Trip Generation

Land Use	TSF	Trip Generation[1]						
		Daily	AM			PM		
			In	Out	Total	In	Out	Total
Project Trips (Vehicles)	53	260	32	4	36	4	29	33
Passenger Cars		204	25	3	28	3	23	26
2-Axle (PCE)		31	4	0	4	0	3	4
3-Axle (PCE)		20	2	0	3	0	2	3
4+ (PCE)		74	9	1	10	1	8	9
Project Trips (PCE)	53	329	40	4	44	4	36	40
Estimated Trucks		56	7	1	8	1	6	7

[1]Trip generation rates for peak hour of adjacent streets, per the ITE Trip Generation Manual 10th Edition.
Sources: Kittelson & Associates, Inc. 2022; Institute of Transportation Engineers' *Trip Generation Manual, 10th Edition*, 2017

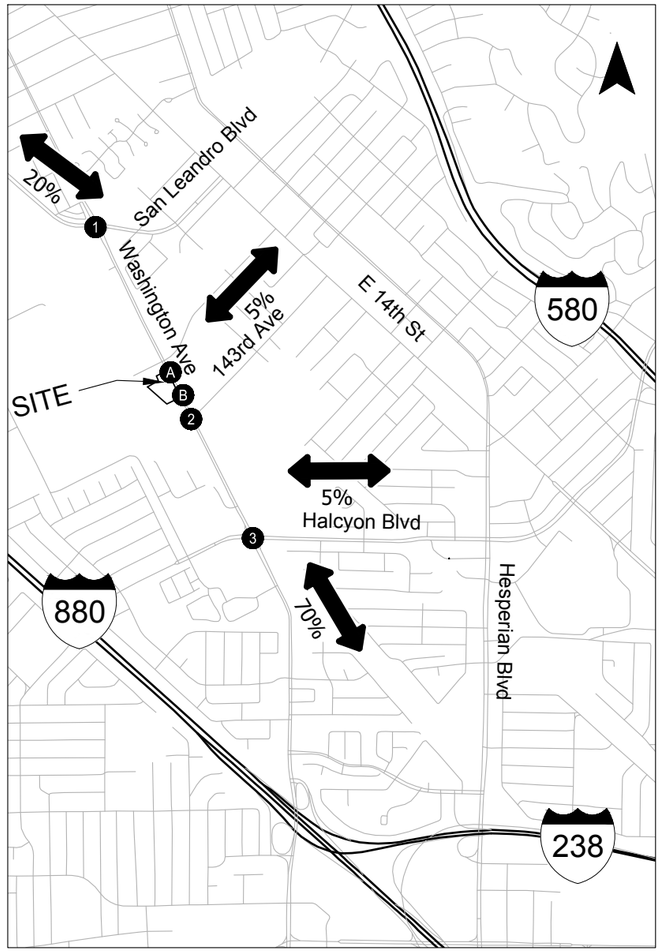
Table 9. Vehicle Mix and PCE Factors

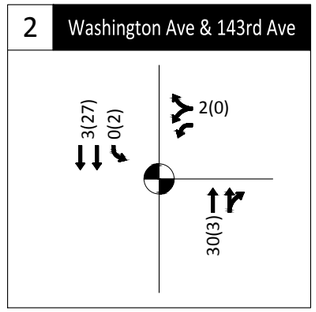
	Type of Vehicle[1]				Total Truck	Total
	Passenger Car	2-Axle Truck	3-Axle Truck	4-Axle Truck		
Light Industrial Fleet Mix %[3]	78.6%	8.0%	3.9%	9.5%	21.4%	100%
Daily Vehicle Mix	204	21	10	25	56	260
PCE Factor[2]	1.0	1.5	2.0	3.0		

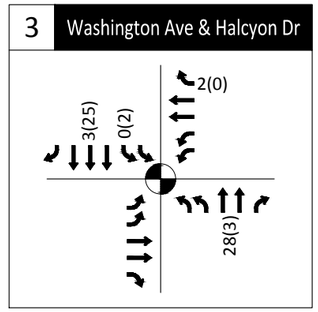
[1]Vehicle mix source: Truck Trip Generation Study (City of Fontana, 2003).
[2]Passenger Car Equivalent factors are recommended by the San Bernardino Associated Governments (Sanbag 2005).
[3]Light industrial mix applies for facilities that employ fewer than 500 persons and have an emphasis on activities other than manufacturing

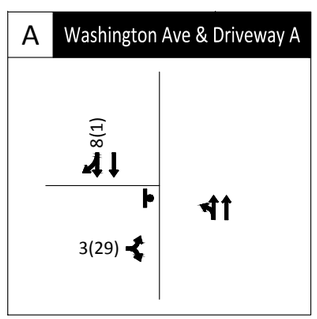
TRIP DISTRIBUTION

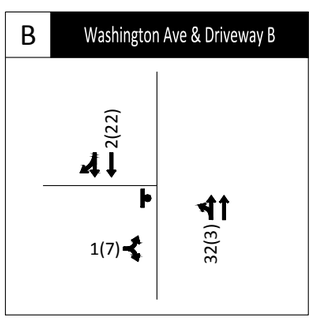
The distribution of Project trips was developed using the Countywide Model. The overall distribution percentages and volumes of Project trips are presented in Figure 5.











AM(PM) - Traffic Volume

- Stop Sign

- Traffic Signal

XX% - Trip Distribution Percentage

Trip Distribution
Project-Only Volumes
San Leandro, California

Figure
5

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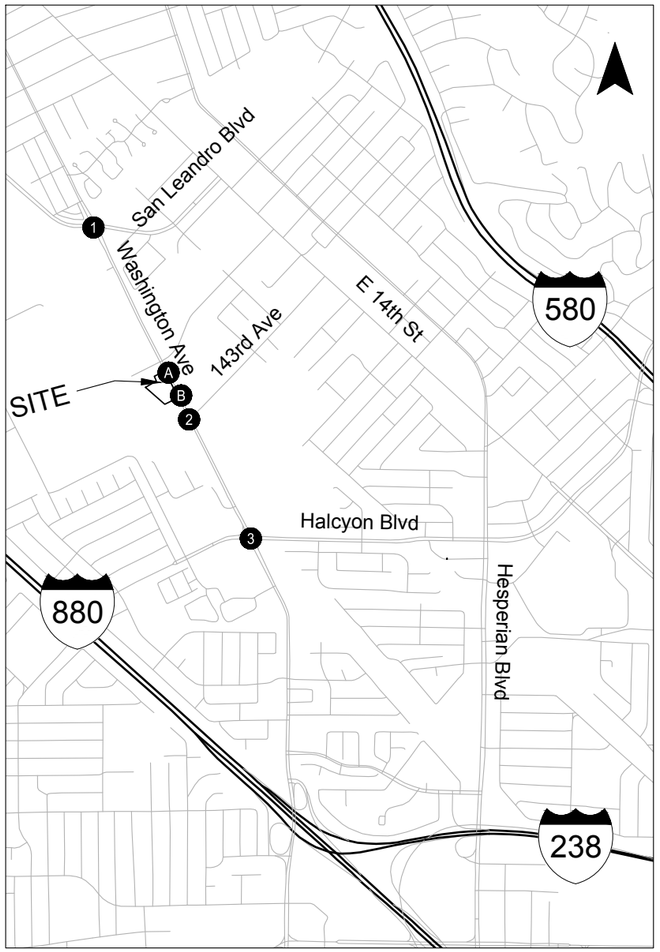
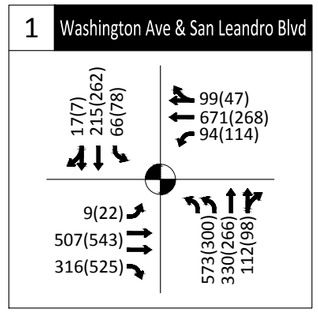
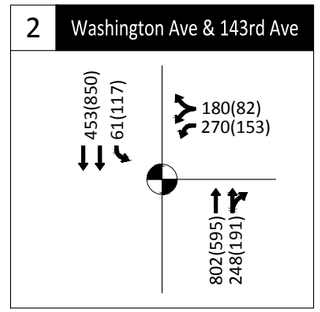
EXISTING PLUS PROJECT CONDITIONS

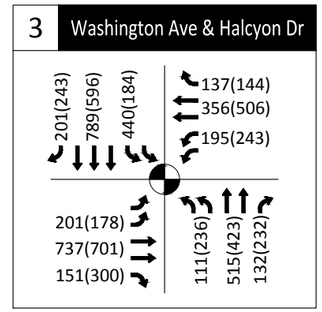
The potential effects of the proposed Project on the existing operations at the study intersections are discussed in this section. Other impacts, such as those associated with site access, on-site circulation, trucks, and parking, are discussed in the Additional Transportation Needs Assessments section.

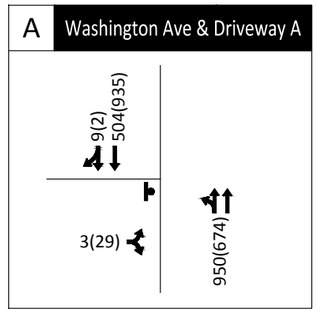
Traffic volumes for Existing Plus Project conditions were developed using an additive approach. Estimated traffic generated by the proposed Project, presented in Figure 5, was added to existing volumes on the roadway network, presented in Figure 3, based on the trip distribution patterns from the Countywide Model to develop the volumes for the Existing Plus Project conditions. Existing Plus Project turning movement volumes are shown in Figure 6.

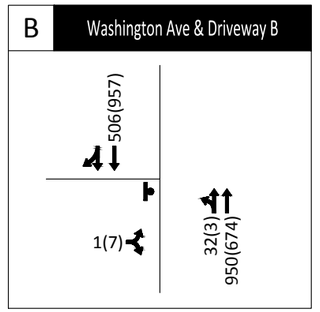












AM(PM) - Traffic Volume

- Stop Sign

- Traffic Signal

Existing Plus Project Lane Configurations and Peak Hour Volumes
San Leandro, California

Figure 6

KITTELSON & ASSOCIATES

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INTERSECTION OPERATIONS

As shown in Table 10, with the addition of Project traffic, all study intersections would continue to operate within the standard of LOS D or better during both peak hours, except:

- Intersection #3: Washington Avenue/ Halcyon Drive/Floresta Boulevard: During the weekday AM peak period, this intersection operates unacceptably at LOS F under Existing conditions and at LOS E under Existing Plus Project conditions. The increase in v/c is expected to be less than 0.05, therefore it does not cause a significant impact.

Detailed LOS worksheets are presented in Appendix D.

Table 10: Existing and Existing Plus Project Intersection Operations

#	North-South Street	East-West Street	Control Type	Peak Hour	Existing			Existing Plus Project			Impact?
					V/C	Delay	LOS	V/C	Delay	LOS	
1	Washington Avenue	San Leandro Boulevard	Signal	AM	0.73	51.4	D	0.73	52.7	D	NO
				PM	0.52	41.9	D	0.53	41.7	D	NO
2	Washington Avenue	143rd Avenue	Signal	AM	0.66	10.4	B	0.67	10.6	B	NO
				PM	0.49	7.1	A	0.49	7.1	A	NO
3	Washington Avenue	Halcyon Drive /Floresta Blvd	Signal	AM	0.73	80.4	*F*	0.74	79.9	*E*	NO
				PM	0.58	41.6	D	0.59	41.6	D	NO
A	Washington Avenue	Driveway A	TWSC	AM	-	-	-	0.01	14.0	B	NO
				PM	-	-	-	0.10	18.2	C	NO
B	Washington Avenue	Driveway B	TWSC	AM	-	-	-	0.00	10.0	B	NO
				PM	-	-	-	0.01	12.3	B	NO

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Definitions of "Delay," "LOS" and "V/C" are provided in Table 2.
Bold denotes exceeds City standard.
Bold and Shaded denotes Project Impact.
TWSC: Two-way stop controlled intersection. Movement with worst delay is presented.
Source: Kittelson & Associates, 2022

Intersection Queues

Table 11 and Table 12 compares the 95th percentile queue lengths expected under Existing conditions without and with the Project. As shown in the tables, some of the left-turn and right-turn queues will exceed their respective turn pockets under Existing and Existing Plus Project conditions however, queues would remain unchanged or would experience minimal change in length with the Project.

The addition of the Project traffic is not expected to increase the queue by more than one vehicle at any of the roadways. Exceedance of queue length by one to two vehicle lengths was not considered a significant impact, given that the minimal exceedance would occur during a brief period of the peak hours (i.e., during five percent of the peak hour).

Detailed queuing worksheets are presented in Appendix D.

Table 11: 95th Percentile Queue Comparison of Existing Conditions without and with Project, AM Peak Hour

#	Intersection		Eastbound		Westbound		Northbound		Southbound	
			Left	Right	Left	Right	Left	Right	Left	Right
1	Washington Avenue & San Leandro Boulevard	*Storage*	140	150	90	--	320	--	170	--
		Existing	22	47	108	--	#319	--	83	--
		Existing + Project	22	50	108	--	#320	--	83	--
2	Washington Avenue & 143rd Avenue	*Storage*	--	--	140	--	--	--	150	--
		Existing	--	--	134	--	--	--	75	--
		Existing + Project	--	--	135	--	--	--	75	--
3	Washington Avenue & Halcyon Drive/Floresta Boulevard	*Storage*	280	170	450	40	300	225	400	100
		Existing	121	72	118	68	74	45	#382	0
		Existing + Project	121	72	118	71	74	45	#382	0
A	Washington Avenue & Driveway A	*Storage*	210	--	--	--	390	--	--	--
		Existing	--	--	--	--	--	--	--	--
		Existing + Project	0	--	--	--	0	--	--	--
B	Washington Avenue & Driveway B	*Storage*	250	--	--	--	310	--	--	--
		Existing	--	--	--	--	--	--	--	--
		Existing + Project	0	--	--	--	3	--	--	--

Queue lengths reported in feet.
Bold text indicates queue length exceeds storage.
# indicates 95th percentile queue may be longer
Source: Kittelson & Associates, Inc., 2022

Table 12: 95th Percentile Queue Comparison of Existing Conditions without and with Project, PM Peak Hour

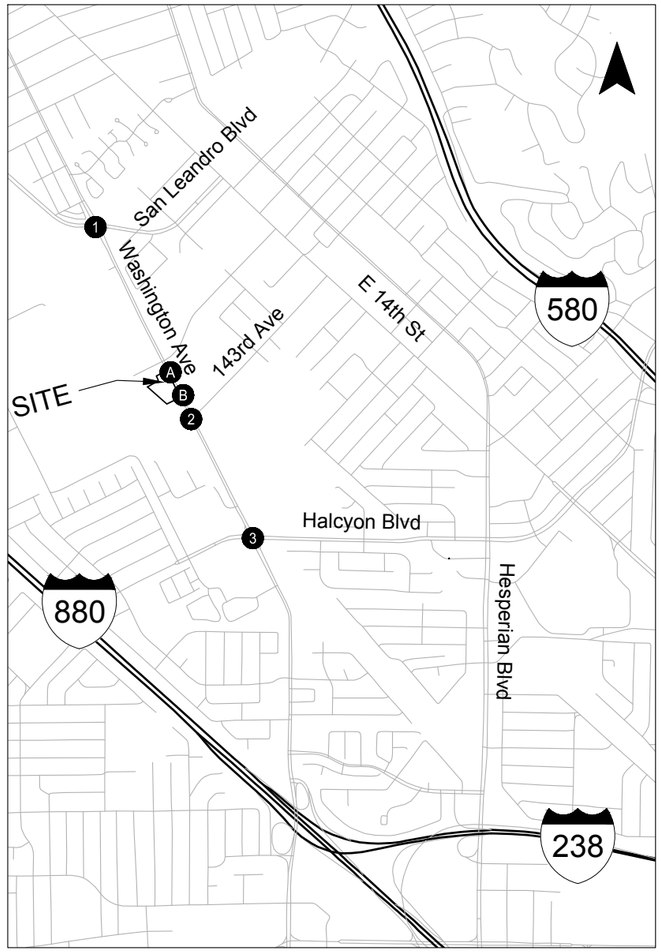
#	Intersection		Eastbound		Westbound		Northbound		Southbound	
			Left	Right	Left	Right	Left	Right	Left	Right
1	Washington Avenue & San Leandro Boulevard	*Storage*	140	150	90	--	320	--	170	--
		Existing	36	182	120	--	125	--	90	--
		Existing + Project	36	183	120	--	128	--	90	--
2	Washington Avenue & 143rd Avenue	*Storage*	--	--	140	--	--	--	150	--
		Existing	--	--	60	--	--	--	106	--
		Existing + Project	--	--	60	--	--	--	108	--
3	Washington Avenue & Halcyon Drive/Floresta Boulevard	*Storage*	280	170	450	40	300	225	400	100
		Existing	102	123	134	67	134	59	110	0
		Existing + Project	102	127	134	67	134	59	112	0
A	Washington Avenue & Driveway A	*Storage*	210	--	--	--	390	--	--	--
		Existing	--	--	--	--	--	--	--	--
		Existing + Project	8	--	--	--	0	--	--	--
B	Washington Avenue & Driveway B	*Storage*	250	--	--	--	310	--	--	--
		Existing	--	--	--	--	--	--	--	--
		Existing + Project	0	--	--	--	0	--	--	--

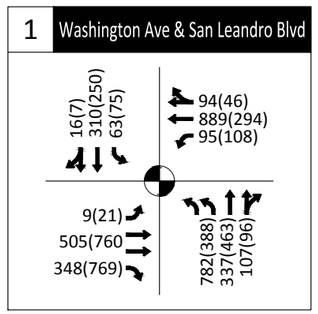
Queue lengths reported in feet.
Bold text indicates queue length exceeds storage.
# indicates 95th percentile queue may be longer
Source: Kittelson & Associates, Inc., 2022

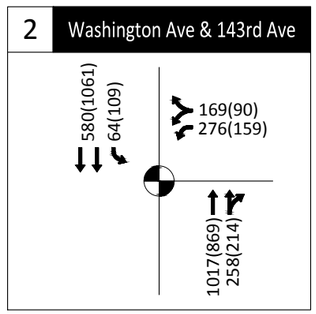
CUMULATIVE (2035) CONDITIONS

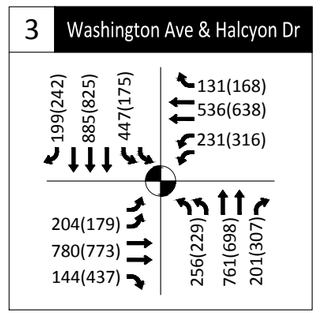
Cumulative (2035) conditions and the potential impacts of the Project on Cumulative intersection operations are discussed in this section.

Trips associated with future background growth, resulting from future development and land use changes, were added to Existing volumes to develop the Cumulative conditions. The Project trips from the recently approved San Leandro Business Center at 100 Halcyon Drive project were added to develop the Cumulative Conditions. These volumes were developed by determining the full background growth increment in the Countywide Model, interpolating for the difference between the 2010 base year model to 2016 counts, and from the 2040 cumulative year model to 2035 to maintain consistency with the San Leandro General Plan horizon year. Cumulative volumes are shown in Figure 7.









AM(PM) - Traffic Volume

- Stop Sign

- Traffic Signal

Cumulative (2035) Lane Configurations and Peak Hour Volumes
San Leandro, California

Figure 7

KITTELSON & ASSOCIATES

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INTERSECTION OPERATIONS

Table 13 presents intersection operations for Cumulative conditions without the Project. The results indicate that all study intersections are operating at LOS D or better during both peak hours, except:

- Intersection #1: Washington Avenue/ San Leandro Boulevard: During the weekday AM and PM peak period, this intersection operates unacceptably at LOS F and LOS E respectively under Cumulative Conditions.
- Intersection #3: Washington Avenue/ Halcyon Drive/Floresta Boulevard: During the weekday AM peak period, this intersection operates unacceptably at LOS E under Cumulative Conditions.

The detailed LOS worksheets are presented in Appendix E.

Table 13: Cumulative Conditions (No-Project) Intersection Operations Results

#	North-South Street	East-West Street	Control Type	Peak Hour	Cumulative (No Project)		
					V/C	Delay	LOS
1	Washington Avenue	San Leandro Boulevard	Signal	AM	0.90	103.0	*F*
				PM	0.73	76.0	*E*
2	Washington Avenue	143rd Avenue	Signal	AM	0.76	12.5	B
				PM	0.58	7.3	A
3	Washington Avenue	Halcyon Drive/Floresta Boulevard	Signal	AM	0.86	77.4	*E*
				PM	0.72	45.4	D

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HCM 6th Edition methodology
Definitions of "Delay," "LOS" and "V/C" are provided in Table 2.
Bold denotes exceeds City standard.
Bold and Shaded denotes Project Impact.
Source: Kittelson & Associates, 2022

Intersection Queues

Table 14 and Table 15 present the 95th percentile queue lengths expected under Cumulative (No Project) conditions. As shown in the tables, some left-turn and right-turn queues may exceed their respective turn pockets during the AM and PM peak hours without the addition of the Project traffic.

At Washington Avenue/San Leandro Boulevard, northbound left-turn queues during the weekday AM peak hour exceed storage capacity by seven vehicles; eastbound right-turn queues during the weekday PM peak hour exceed storage capacity by eight vehicles; and westbound left-turn queues during the weekday AM and PM peak hour exceed the storage capacity by one vehicle. Westbound left-turn queues at Washington Avenue/143rd Avenue exceed storage capacity by two feet and westbound right-turn queues at Washington Avenue/Halcyon Drive/Floresta Boulevard exceed storage by one vehicle during the AM peak hour and by two vehicles during the PM peak hour. Westbound left-turn queues are within the storage capacity but spill back beyond the railroad crossing located on Halcyon Drive east of the intersection so when a train is present, vehicles are required to stop east of the crossing gate.

Detailed queuing worksheets are presented in Appendix E.

Table 14: 95th Percentile Queue Comparison of Existing Conditions without and with Project, AM Peak Hour

#	Intersection		Eastbound		Westbound		Northbound		Southbound	
			Left	Right	Left	Right	Left	Right	Left	Right
1	Washington Avenue & San Leandro Boulevard	*Storage*	140	150	90	--	320	--	170	--
		Cumulative	22	111	109	--	#480	--	80	--
2	Washington Avenue & 143rd Avenue	*Storage*	--	--	140	--	--	--	150	--
		Cumulative	--	--	142	--	--	--	78	--
3	Washington Avenue & Halcyon Drive/Floresta Boulevard	*Storage*	280	170	450	40	300	225	400	100
		Cumulative	125	74	140	65	151	53	#389	0

Queue lengths reported in feet.
Bold text indicates queue length exceeds storage.
# indicates 95th percentile queue may be longer
Source: Kittelson & Associates, Inc., 2022

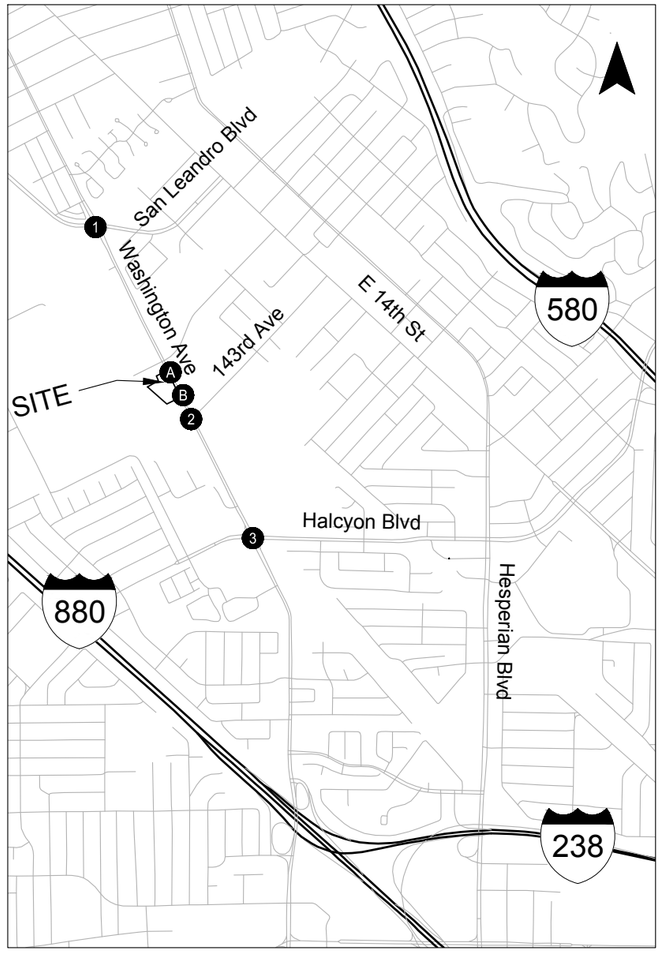
Table 15: 95th Percentile Queue Comparison of Existing Conditions without and with Project, PM Peak Hour

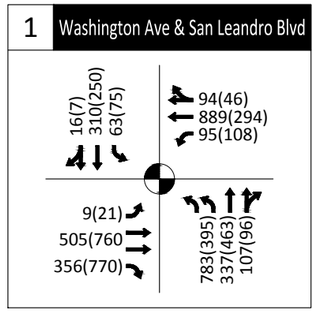
#	Intersection		Eastbound		Westbound		Northbound		Southbound	
			Left	Right	Left	Right	Left	Right	Left	Right
1	Washington Avenue & San Leandro Boulevard	*Storage*	140	150	90	--	320	--	170	--
		Cumulative	35	359	114	--	164	--	87	--
2	Washington Avenue & 143rd Avenue	*Storage*	--	--	140	--	--	--	150	--
		Cumulative	--	--	78	--	--	--	120	--
3	Washington Avenue & Halcyon Drive/Floresta Boulevard	*Storage*	280	170	450	40	300	225	400	100
		Cumulative	105	311	#205	89	130	98	107	0

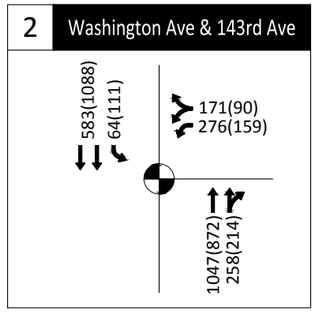
Queue lengths reported in feet.
Bold text indicates queue length exceeds storage.
# indicates 95th percentile queue may be longer
Source: Kittelson & Associates, Inc., 2022

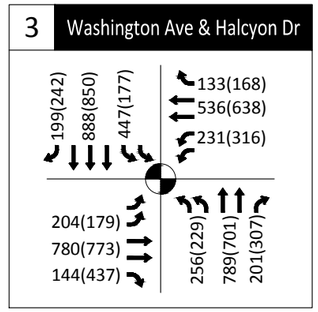
CUMULATIVE (2035) PLUS PROJECT CONDITIONS

Cumulative plus Project volumes were developed by adding the Project trips to the Cumulative volumes. Cumulative Plus Project volumes are shown in Figure 8.









AM(PM) - Traffic Volume

- Stop Sign

- Traffic Signal

Cumulative (2035) Plus Project Lane Configurations and Peak Hour Volumes
San Leandro, California

Figure 8

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INTERSECTION OPERATIONS

Table 16 presents intersection operations for Cumulative Plus Project conditions. The results indicate that all study intersections are operating at LOS D or better during both peak hours, except:

- Intersection #1: Washington Avenue/ San Leandro Boulevard: During the weekday AM and PM peak period, this intersection operates unacceptably at LOS F and LOS E respectively under Cumulative and Cumulative Plus Project Conditions. The increase in v/c is expected to be less than 0.05, therefore it does not cause a significant impact.
- Intersection #3: Washington Avenue/ Halcyon Drive/Floresta Boulevard: During the weekday AM peak period, this intersection operates unacceptably at LOS E under Cumulative and Cumulative Plus Project Conditions. The increase in v/c is expected to be less than 0.05, therefore it does not cause a significant impact.

The detailed LOS worksheets are presented in Appendix F.

Table 16: Cumulative Plus Project Conditions Intersection Operations Results

#	North-South Street	East-West Street	Control Type	Peak Hour	Cumulative			Cumulative Plus Project			Impact ?
					V/C	Delay	LOS	V/C	Delay	LOS	
1	Washington Avenue	San Leandro Boulevard	Signal	AM	0.90	103.0	*F*	0.92	103.6	*F*	NO
				PM	0.73	76.0	*E*	0.73	75.6	*E*	NO
2	Washington Avenue	143rd Avenue	Signal	AM	0.76	12.5	B	0.77	13.1	B	NO
				PM	0.58	7.3	A	0.59	7.3	A	NO
3	Washington Avenue	Halcyon Drive /Floresta Boulevard	Signal	AM	0.86	77.4	*E*	0.87	77.2	*E*	NO
				PM	0.72	45.4	D	0.72	45.4	D	NO
A	Washington Avenue	Driveway A	TWSC	AM	-	-	-	0.01	17.3	C	NO
				PM	-	-	-	0.16	27.1	D	NO
B	Washington Avenue	Driveway B	TWSC	AM	-	-	-	0.03	10.6	B	NO
				PM	-	-	-	0.01	13.9	B	NO

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Definitions of "Delay," "LOS" and "V/C" are provided in Table 2.
Bold denotes exceeds City standard.
Bold and Shaded denotes Project Impact.
TWSC: Two-way stop controlled intersection. Movement with worst delay is presented.
Source: Kittelson & Associates, 2022

Intersection Queues

Table 17 and Table 18 present the 95th percentile queue lengths expected under Cumulative (2035) Plus Project conditions during the AM and PM peak hours respectively.

Similar to Existing conditions results, the addition of the Project traffic is not expected to increase the queue by more than one vehicle at any of the roadways. Exceedance of queue length by one to two vehicle lengths was not considered a significant impact given the minimal exceedance would occur during a brief period of the peak hours (i.e., during five percent of the peak hour).

Detailed queuing worksheets are presented in Appendix F.

Table 17: 95th Percentile Queue Comparison of Existing Conditions without and with Project, AM Peak Hour

#	Intersection		Eastbound		Westbound		Northbound		Southbound	
			Left	Right	Left	Right	Left	Right	Left	Right
1	Washington Avenue & San Leandro Boulevard	*Storage*	140	150	90	--	320	--	170	--
		Cumulative	22	111	109	--	#480	--	80	--
		Cumulative + Project	22	117	109	--	#480	--	80	--
2	Washington Avenue & 143rd Avenue	*Storage*	--	--	140	--	--	--	150	--
		Cumulative	--	--	142	--	--	--	78	--
		Cumulative + Project	--	--	141	--	--	--	78	--
3	Washington Avenue & Halcyon Drive/Floresta Boulevard	*Storage*	280	170	450	40	300	225	400	100
		Cumulative	125	74	140	65	151	53	#389	0
		Cumulative + Project	125	74	140	66	151	53	#389	0
A	Washington Avenue & Driveway A	*Storage*	210	--	--	--	390	--	--	--
		Cumulative	--	--	--	--	--	--	--	--
		Cumulative + Project	0	--	--	--	0	--	--	--
B	Washington Avenue & Driveway B	*Storage*	250	--	--	--	310	--	--	--
		Cumulative	--	--	--	--	--	--	--	--
		Cumulative + Project	0	--	--	--	3	--	--	--

Queue lengths reported in feet.
Bold text indicates queue length exceeds storage.
# indicates 95th percentile queue may be longer
Source: Kittelson & Associates, Inc., 2022

Table 18: 95th Percentile Queue Comparison of Existing Conditions without and with Project, PM Peak Hour

#	Intersection		Eastbound		Westbound		Northbound		Southbound	
			Left	Right	Left	Right	Left	Right	Left	Right
1	Washington Avenue & San Leandro Boulevard	*Storage*	140	150	90	--	320	--	170	--
		Cumulative	35	359	114	--	164	--	87	--
		Cumulative + Project	35	360	114	--	166	--	87	--
2	Washington Avenue & 143rd Avenue	*Storage*	--	--	140	--	--	--	150	--
		Cumulative	--	--	78	--	--	--	120	--
		Cumulative + Project	--	--	78	--	--	--	122	--
3	Washington Avenue & Halcyon Drive/Floresta Boulevard	*Storage*	280	170	450	40	300	225	400	100
		Cumulative	105	311	#205	89	130	98	107	0
		Cumulative + Project	105	312	#205	89	130	98	107	0
A	Washington Avenue & Driveway A	*Storage*	210	--	--	--	390	--	--	--
		Cumulative	--	--	--	--	--	--	--	--
		Cumulative + Project	15	--	--	--	0	--	--	--
B	Washington Avenue & Driveway B	*Storage*	250	--	--	--	310	--	--	--
		Cumulative	--	--	--	--	--	--	--	--
		Cumulative + Project	3	--	--	--	0	--	--	--

Queue lengths reported in feet.
Bold text indicates queue length exceeds storage.
# indicates 95th percentile queue may be longer
Source: Kittelson & Associates, Inc., 2022

ADDITIONAL TRANSPORTATION NEEDS ASSESSMENTS

In addition to analyzing the operations of the study intersections, site access, on-site circulation, and parking capacity were analyzed. The goal of these analyses was to determine an efficient and safe way for trucks and vehicles to access the site and to confirm that the site plan complies with the City of San Leandro parking code requirements.

SITE ACCESS

Vehicles can access the Project site via two driveways on Washington Avenue – the northern driveway (Driveway A) is 26 feet wide and is proposed to serve mostly automobile trips while the southern driveway (Driveway B) is 32 feet wide and would be dedicated to truck traffic to access the loading docks at the rear of the building and some automobile traffic as well. Driveway A on Washington Avenue is located approximately 420 feet north of Washington Avenue/143rd Avenue, and Driveway B on Washington Avenue is located approximately 210 feet north of Washington Avenue/143rd Avenue. The queue analysis results find that there will be minimal queueing at the Project driveways. Truck-turning analysis at Driveway B demonstrated that the driveway could accommodate WB-50 and WB-67 trucks. Emergency vehicle access to the project site is accommodated at both site driveways and within the drive aisles in the parking lot. The emergency vehicle turning analysis was preformed using the Arrow XT Quint 105 template. The proposed site plan provides adequate lane width and curb radii to accommodate WB-50 trucks, WB-67 trucks and emergency vehicles, however, based on the roadway width and width at Driveway B, trucks exiting the driveway should do so first before trucks enter the driveway. Truck turning templates are included as Appendix G.

Washington Avenue is an at-grade, straight road adjacent to the Project site, and allow for visibility of vehicles entering and exiting the Project driveways. Landscaping and signage as part of the Project should be designed and placed along Washington Avenue in a manner that considers and maintains the sight lines of drivers who are exiting the Project site.

SITE CIRCULATION

The site plan is configured so that all trucks could enter Driveway B and circulate within the site at the designated trucks paths. Truck trailer parking stalls and docks are located behind the site, close to the railroad tracks. Analysis of on-site truck circulation demonstrated that all drive aisles which require truck access can accommodate emergency vehicles, WB-50, and WB-67 trucks. The analysis included an evaluation of truck maneuvers to back a trailer to a dock along the rear of the building. Truck circulation paths are included as Appendix G.

Other-size vehicles (smaller trucks and cars) may enter and exit through either driveway. Standard parking spaces are provided on either side of the building, and both driveways provide access to all parking areas.

TRUCK OPERATIONS

As shown in Table 8, the Project would generate a total of 56 daily truck trips, 8 AM peak hour trips (7 inbound/1 outbound) and 7 PM peak hour trips (1 inbound/6 outbound). Therefore, the Project would generate approximately 5 trucks per hour on a daily basis.

PARKING NEEDS ASSESSMENT

The number of parking spaces required on site, according to the use classification of the City of San Leandro Zoning Code 4.08.108, is indicated in Table 19.

Table 19: Off-Street Parking and Loading Spaces Required – San Leandro, California Zoning Code Requirements

Zoning Land Use Category	Application to Project	Code Requirement for Parking	Square Footage	Required Spaces
Industry: Custom and General	Industrial Park	1 space per 1,000 sq. ft.	52,500	53
Total spaces required (Based on site plan):				48
Total spaces provided (Based on site plan):				69
Meets Code?				Yes

Source: City of San Leandro Zoning Code 4.1704
Kittelson & Associates, Inc., 2022

The proposed Project is approximately 52,500 square feet of industrial park space and the City of San Leandro Zoning Code requires 53 parking spaces for the Project. As shown on the site plan (Figure 2), the Project will provide 64 standard parking spaces and 5 truck trailer stalls (69 total stalls). Therefore, this provision of parking would meet City requirements. Moreover, the truck trailer stalls are large enough for tandem parking for standard vehicles, which would allow the Project site to accommodate over 69 vehicles.

TRANSIT, BICYCLE AND PEDESTRIAN FACILITIES EVALUATION

Due to its industrial nature, the Project is expected to generate negligible transit, bicycle, and pedestrian trips. As such, the Project's impact on transit, bicycle, and pedestrian facilities is expected to be minimal and not significant during Existing Plus Project and Cumulative (2035) Plus Project conditions.

ALAMEDA CTC CONGESTION MANAGEMENT PROCESS

As part of the Congestion Management Program (CMP), the Alameda CTC requires all land use projects that generate more than 100 PM peak hour trips to evaluate the project on key CMP and Metropolitan Transportation System (MTS) roadways. However, based on the project trips shown in in Table 8, the project generates less than 50 vehicle trips in the PM peak hour, and therefore a CMP analysis is not required.

Section 6
Conclusion

CONCLUSION

The traffic impact analysis results in the following conclusions:

Proposed Development Plan

The Project is an approximately 47,500 square-foot warehouse and a 5,000 square foot office, for a combined of a total 52,500 square foot project site area. The Project anticipates uses such as warehousing and industrial uses. The Project is proposing two project full access driveways on Washington Avenue – the northern driveway (Driveway A) is proposed to serve mostly automobile trips while the southern driveway (Driveway B) would be dedicated to truck traffic to access the loading docks at the rear of the building and some automobile traffic as well.

For purposes of this analysis, the total number of Project-generated trips were evaluated for Existing Plus Project and Cumulative (2035) Plus Project conditions.

Traffic Operations

Table 20 summarizes traffic operations for the study intersections under year 2022 Existing traffic conditions, year 2022 Existing Plus Project traffic conditions, year 2035 Cumulative traffic conditions, and year 2035 Cumulative Plus Project traffic conditions. Based on traffic operation results, some of the intersections do not operate within the threshold under Existing and Cumulative conditions however, none of the study intersections cause significant impact under Existing, Existing Plus Project, Cumulative, and Cumulative Plus Project traffic conditions during the weekday AM and PM peak hour.

Table 20. Study Intersections Operations Summary

#	North-South Street	East-West Street	Control Type[1]	Peak Hour	Existing			Existing Plus Project			Impact?	Cumulative			Cumulative Plus Project			Impact?
					V/C[2]	Delay	LOS[3]	V/C	Delay	LOS		V/C	Delay	LOS	V/C	Delay	LOS	
1	Washington Avenue	San Leandro Boulevard	Signal	AM	0.73	51.4	D	0.73	52.7	D	NO	0.90	103.0	*F*	0.92	103.6	*F*	NO
				PM	0.52	41.9	D	0.53	41.7	D	NO	0.73	76.0	*E*	0.73	75.6	*E*	NO
2	Washington Avenue	143rd Avenue	Signal	AM	0.66	10.4	B	0.67	10.6	B	NO	0.76	12.5	B	0.77	13.1	B	NO
				PM	0.49	7.1	A	0.49	7.1	A	NO	0.58	7.3	A	0.59	7.3	A	NO
3	Washington Avenue	Halcyon Drive/Floresta Boulevard	Signal	AM	0.73	80.4	*F*	0.74	79.9	*E*	NO	0.86	77.4	*E*	0.87	77.2	*E*	NO
				PM	0.58	41.6	D	0.59	41.6	D	NO	0.72	45.4	D	0.72	45.4	D	NO
A	Washington Avenue	Driveway A	TWSC	AM	-	-	-	0.01	14.0	B	NO	-	-	-	0.01	17.3	C	NO
				PM	-	-	-	0.10	18.2	C	NO	-	-	-	0.16	27.1	D	NO
B	Washington Avenue	Driveway B	TWSC	AM	-	-	-	0.00	10.0	B	NO	-	-	-	0.03	10.6	B	NO
				PM	-	-	-	0.01	12.3	B	NO	-	-	-	0.01	13.9	B	NO

[1]Intersection control type: TWSC = two-way-stop-control, Signal = Traffic Signal | [2]V/C = volume-to-capacity ratio (HCM 2000) | [3]LOS = Intersection Level of Service | Intersections that do not meet agency thresholds for LOS D (signal); Intersections operating at unacceptable level of service under cumulative conditions without the project have a significant impact if the project increases the average delay at unsignalized intersections by more than 5 seconds, or increases the v/c ratio by 0.05 or more at a signalized intersection are shown highlighted and in bold and *italics.* (Bold denotes exceeds City standard. Bold and Shaded denotes Project Impact).

Existing Conditions

- Under Existing conditions, all study intersections would operate acceptably at LOS D or better during the weekday AM and PM peak hours except:
    - Washington Avenue/Halcyon Drive/Floresta Boulevard during the weekday AM peak period (LOS F).
- Turn queues at Washington Avenue/San Leandro Boulevard and Washington Avenue/Halcyon Drive/Floresta Boulevard exceed capacity of their left-turn and right-turn pockets as presented in Table 5 and Table 6 of the study.
- Under Existing Plus Project conditions with the addition of Project traffic, all study intersections would continue to operate acceptably at LOS D or better during the weekday AM and PM peak hours except:
    - Washington Avenue/Halcyon Drive/Floresta Boulevard during the weekday AM peak period (LOS E). However, the addition of the Project does not result in a significant impact as the increase in v/c ratio is less than 0.05.
- Left-turn queues and right-turn queues that will exceed their respective turn pockets during the AM and PM peak hours under Existing conditions without the Project would experience minimal change in length with the addition of the Project traffic.
- Washington Avenue/Driveway A and Washington Avenue/Driveway B (Intersection A & B) operate within the threshold. Around three northbound left-turning vehicles are expected at Driveway B during the weekday AM peak hours under Existing Plus Project conditions.

Vehicle Miles Traveled Impact Analysis

- The Vehicle Miles Traveled (VMT) analysis was conducted using the Alameda County transportation Commission (ACTC) guidelines to determine if the project constitutes a VMT impact under SB-743.
- The average target (with a 15% reduction from the target value) VMT per employee in the Central Planning Area is 16.3, and the project area zone has an average VMT per employee of 15.23. Since the project is located in an area with below average VMT based on the threshold, the project would have a less-than-significant VMT impact and can be screened out of a detailed VMT analysis.

Trip Generation and Distribution

- The Project would generate a net new 329 daily trips, 44 AM peak hour trips (40 inbound/4 outbound) and 40 PM peak hour trips (4 inbound/36 outbound). The distribution of Project trips was developed using the Countywide Model.

Cumulative (2035) Conditions

- Under Cumulative (2035) Conditions, all study intersections would operate acceptably at LOS D or better during the weekday AM and PM peak hours except:
    - Washington Avenue/San Leandro Boulevard during the weekday AM peak period (LOS F) and weekday PM peak period (LOS E)
    - Washington Avenue/Halcyon Drive/Floresta Boulevard during the weekday AM peak period (LOS E)

- Turn queues at all study intersections exceed capacity of their left-turn and right-turn pockets as presented in Table 14 and Table 15 of the study.
- Under Cumulative (2035) Plus Project conditions with the addition of Project traffic, all study intersections would continue to operate acceptably at LOS D or better during each peak hour except:
    - Washington Avenue/San Leandro Boulevard during the weekday AM peak period (LOS F) and weekday PM peak period (LOS E)
    - Washington Avenue/Halcyon Drive/Floresta Boulevard during the weekday AM peak period (LOS E)
- Left-turn queues and right-turn queues that will exceed their respective turn pockets during the AM and PM peak hours under Cumulative (2035) conditions without the Project would experience minimal change in queue length with the addition of the Project traffic.
- Washington Avenue/Driveway A and Washington Avenue/Driveway B (Intersection A & B) operate within the threshold. Around three northbound left-turning vehicles are expected at Driveway B during the weekday AM peak hours under Cumulative Plus Project conditions.

Site Access and On-Site Circulation

- Analysis of truck turns at the driveways demonstrated that Driveway B on Washington Avenue can accommodate WB-50 and WB-67 trucks. Both Driveway A and Driveway B can accommodate emergency vehicles. Based on the roadway width and width at Driveway B shown in the site plan, WB-50 and WB-67 trucks exiting the Driveway B should do so first before trucks enter the driveway.
- Analysis of on-site truck maneuvers demonstrated that the drive aisles can accommodate circulation of WB-67 trucks, WB-50 trucks and emergency vehicles, including maneuvering to back a trailer to a dock.

Truck Operations

- The Project would generate a total of 56 daily truck trips, 8 AM peak hour trips (7 inbound/1 outbound) and 7 PM peak hour trips (1 inbound/6 outbound). Therefore, the Project would generate approximately 5 trucks per hour on a daily basis

Parking

- Based on the site plan, the Project provides 69 parking stalls, which meets the City requirement of 53 spaces.

Transit, Bicycle, and Pedestrian Facilities

- Due to its industrial nature, the Project is expected to generate negligible transit, bicycle, and pedestrian trips. As such, the Project's impact on transit, bicycle, and pedestrian facilities is expected to be minimal and not significant during Existing Plus Project and Cumulative (2035) Plus Project conditions.

Alameda CTC Congestion Management Plan

- The project generates less than 50 vehicle trips in the PM peak hour, and therefore a CMP analysis is not required.

Appendix A - Scoping Agreement Memorandum

KITTELSON & ASSOCIATES
155 GRAND AVENUE, SUITE 505
OAKLAND, CA 94612
P 510.839.1742 F 510.839.0871

March 22, 2022 Project #: 27394P

Richard Poolis
First Industrial Realty Trust, Inc.
1111 Broadway, 3rd Floor
Oakland, CA 94607

Tel: 510-851-6769

<Transmitted via email>

San Leandro 14143 Washington Avenue Warehousing TIA – Kittelson Traffic Study Scope

Dear Richard:

Attached is a proposal for transportation planning services associated with the proposed warehousing development at 14143-14273 Washington Avenue in San Leandro, CA. We understand the Project involves development of a proposed 47,500 square foot warehouse and a 5,000 square foot office, for a combined total of 52,500 square foot. The project is listed as APN: 077B 1222 003 03, et al, and Plan Check # PLN21-0031.

Based on comments from City staff dated September 14, 2021, the City of San Leandro has requested a detailed traffic impact study to address potential VMT and traffic operational impacts. This scope was developed based on consultation with City staff regarding required components. We understand that City will use this to determine the next steps. If there are any, we would address those in a subsequent amendment.

Kittelson has significant experience working in San Leandro, and more specifically having conducted the 2017 Citywide General Plan, and a recent traffic study at 100 Halcyon Drive.

Part "A" identifies our proposed services for the project in accordance with the terms and conditions outlined in Part "B" (let us know if you prefer to use your own contracting terms). This scope was developed based on our discussions with you, our review of the proposed development plan, and our familiarity with the City.

We propose to conduct the services (detailed in Part "A" herein) based on time and materials for a not to exceed amount of $33,000 (detailed in Table 1 of the attached Part "B"). We will invoice monthly based on T&M and progress for that month. We can commit to delivering a draft technical report within 8 weeks of receiving a notice to proceed and an electronic signed contract. This proposal (scope of work, budget, and timeline) is effective for sixty days.

I will serve as the Project Manager, and Laurence Lewis will serve as project principal. Any questions of a technical or contractual nature can be directed to either of us.

If the attached Professional Services Agreement is satisfactory, please email us a scanned signed copy. A fully executed, electronic copy will be returned for your records. Thank you for the opportunity to propose on this project. If you have any questions, please call me at 510-433-8083.

Sincerely,
KITTELSON & ASSOCIATES, INC.

Damian Stefanakis
Principal Planner

Laurence Lewis
Principal Planner

PROFESSIONAL SERVICES AGREEMENT

March 22, 2022

Kittelson & Associates, Inc.
155 Grand Avenue, Suite 505
Oakland, CA 94612
510.433-8083 (Direct)
510.839.0871 (F)

First Industrial Realty Trust, Inc. with an office at 1111 Broadway, 3rd Floor, Oakland, CA 94607 (the "CLIENT") hereby enters into this Professional Services Agreement (this "Agreement") with KITTELSON & ASSOCIATES, INC. to perform the services as described in this Agreement's Part "A" - Scope of Work (the "Services") for the **San Leandro Washington Warehouse TIA** (the "Project"), subject to all of the provisions described in Part "B" Terms and Conditions.

PART A – SCOPE OF WORK

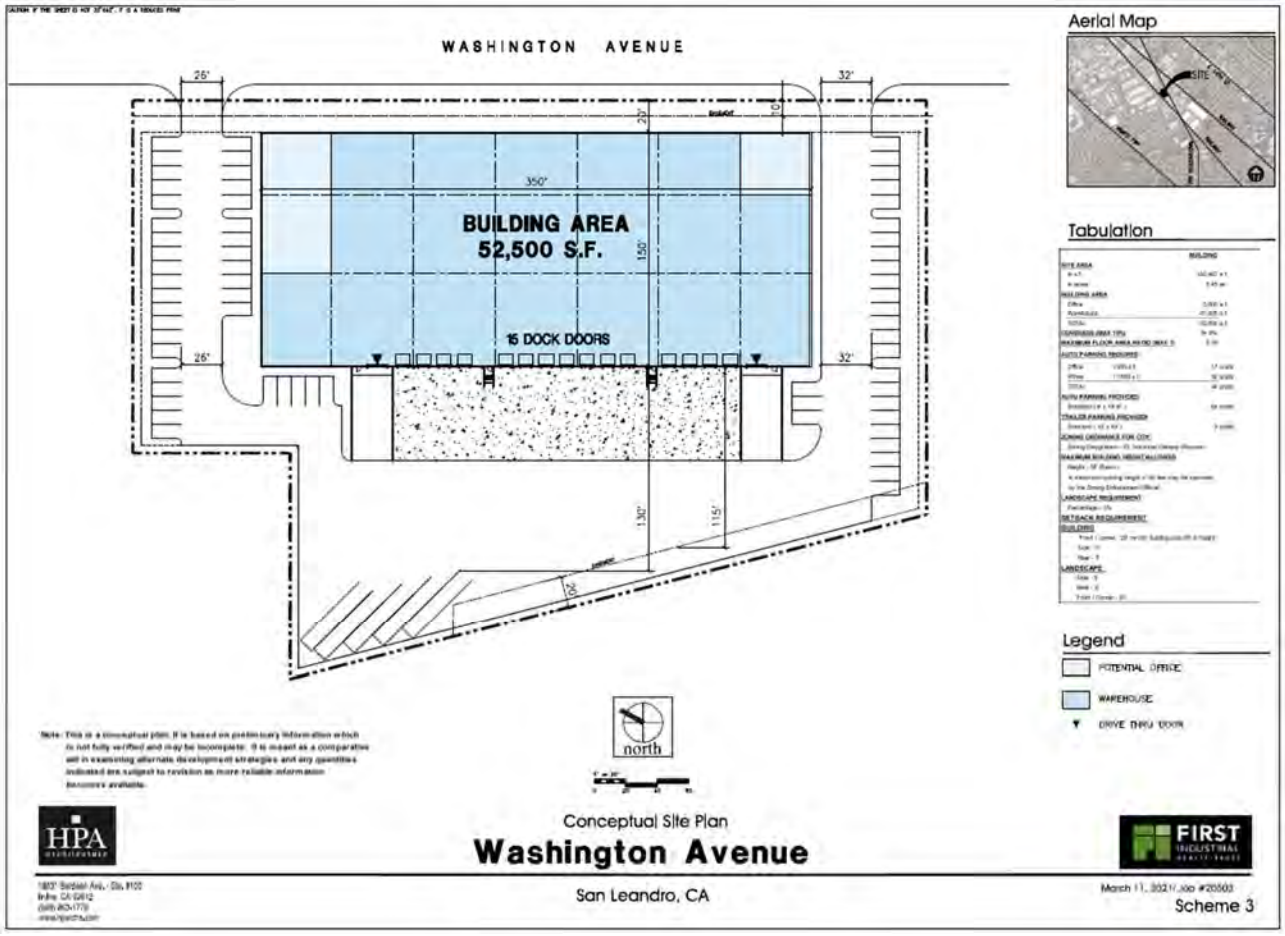
BACKGROUND

The proposed project is located at 14143-14273 Washington Avenue, in San Leandro (APN: 077B 1222 003 03, et al, and Plan Check # PLN21-0031). We understand the Project involves development of a proposed 47,500 square foot warehouse with a small ancillary 5,000 square foot office, for a combined total of 52,500 square foot. The project location is shown in Figure 1, and the current site plan is shown in Figure 2 below. Two project driveways are proposed on Washington Avenue, with the northern driveway serving mostly automobile trips and fire access, and the southern driveway dedicated to truck traffic to access the loading docks at the rear of the building.

Figure 1: Project Location

Source: Applicant, 2022

Figure 2: Project Site Plan



Source: HPA Architects, March 11, 2021

CITY REQUIREMENT

For the proposed project, the City of San Leandro Transportation wants to quantify the project trip generation and determine any potential traffic impacts to the surrounding area. An assessment of VMT will also be conducted under VMT analysis per SB 743 in the event this project requires an initial study or EIR. Specifically, the City has asked for:

44. The applicant shall submit an Overall Traffic Study that examines potential traffic impacts from the project. The City reserves the right to offer additional comments once the final study is submitted. Said Traffic Study shall be submitted for review before Conditions of Approval are drafted for the project.
Please contact Shelia Marquises, Principal Engineer, for more information or questions and to scope this report in advance of its preparation and submittal at (510) 577-3433 or smarquises@sanleandro.org.

45. The Traffic Study shall also include a truck traffic analysis but is not limited to:

a. *Complete Analysis of impacts to the adjacent street should include at the minimum adjacent streets to project including but not limited to Washington Ave, Halcyon Drive, San Leandro Boulevard and 143rd Avenue.*
b. *VMT Baseline Analysis*
c. *Time of Day & Frequency of trucks expected to drive from and to the site*
d. *Number of Trucks per day to the site*
e. *Truck turning exhibit for WB50 shows truck turning from parking lane.*

Given the allotted square footage designated for warehouse and office usage, the project may potentially qualify as a "small project" generating less than 110 trips per day under the Office of Planning and Research (OPR)'s Technical Guidelines. As such, the project may screen out for VMT. Final determination will be made by Public Works-Transportation staff upon review of applicant's formal application/1st submittal. Based on this, Kittelson is proposing the following tasks for the traffic study:

WORKSCOPE

Task 1 – Review of Site Plan and Project Description

Kittelson will review the project description and determine which ITE trip generation category best describes the project. Kittelson will review this with the applicant and City transportation staff before proceeding.

Task 2 – VMT Baseline Analysis

Kittelson will use appropriate ACTC/County or Office of Planning and Research (OPR) Guidelines to determine the project VMT and compare that to the baseline VMT for the area to see if the project constitutes a VMT impact under SB-743. Kittelson will utilize the ACTC Countywide model to compute the VMT.

We understand that the City has not get developed VMT Guidelines and thresholds, so we plan to use existing Alameda CTC (or County) or Office of Planning and Research (OPR) recommendations.

Based on OPR, It is possible this project may screen out for VMT if it meets certain criteria, including, small project, proximity to high quality transit, or resides in a low VMT area per the ACTC Countywide model VMT Maps for industrial employment.

Screening Review:

- If the project has less than 110 trips per day, then it may screen out for VMT.
- If there is available high capacity transit (15 minute frequency within half mile of the project), then it would screen out for VMT.

- If the project resides in a low VMT area, then would screen out for VMT.

Kittelson will document the VMT findings as part of the traffic report.

Task 3 – Impact Analysis

Task 3.1 Trip Generation

Kittelson will prepare trip generation calculations for the proposed development. The analysis will utilize ITE 10th Edition rates as required by the City and address weekday daily, AM peak hour, and PM peak hour time periods. In particular, City has asked for the following:

- Estimated Trip Generation (using ITE)
- Percent trucks for PCE calculation.

There are a number of potential ITE categories that can describe this land use.

- General Warehousing - ITE category 150
- Office – ITE category 710 (first determine if office is already included as part of ITE warehouse).
- General Light Industrial – ITE category 110

Most likely the appropriate category is general warehousing, but Kittelson coordinated with City staff and has proposed the more conservative GLI (ITE 110) category to allow the applicant more flexibility with potential tenants. The trip difference between General Warehousing and GLI is shown in the tables below. Overall, GLI has 44 AM and 40 PM trips (Warehousing has 13 AM and 13 PM trips). Kittelson will move forward on the traffic study with the trips from the GLI category. Since the GLI trips are less than 100 PM peak trips, then there is no need to complete the Alameda CTC CMP Land Use Analysis.

Warehousing (Code 150) Trips

Table 1 Trip Generation Rates

			Trip Generation[1]						
				AM Peak Hour			PM Peak Hour		
Land Use	ITE Code	Unit[2]	Daily	In	Out	Total	In	Out	Total
Warehousing	150	TSF	1.74	0.13	0.04	0.17	0.05	0.14	0.19

[1] Trip generation rates for peak hour of adjacent streets, per the ITE Trip Generation Manual 10th Edition.
[2] Thousand Square Feet

Table 2 Project Trip Generation

		Trip Generation[1]						
			AM Peak Hour			PM Peak Hour		
Land Use	TSF	Daily	In	Out	Total	In	Out	Total
Project Trips (Vehicles)	53	91	7	2	9	3	7	10
Project Trips (PCE)	53	116	10	3	13	3	10	13

Estimated Trucks	19	1	0	2	1	1	2

[1]Trip generation rates for peak hour of adjacent streets, per the ITE Trip Generation Manual 10th Edition.

General Light Industrial (Code 110) Trips

Table 3 Trip Generation Rates

Land Use	ITE Code	Unit[2]	Trip Generation[1]						
			Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
General Light Industrial	110	TSF	4.96	0.62	0.08	0.70	0.08	0.55	0.63

[1] Trip generation rates for peak hour of adjacent streets, per the ITE Trip Generation Manual 10th Edition.
[2] Thousand Square Feet

Table 4 Project Trip Generation

Land Use	TSF	Trip Generation[1]						
		Daily	AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total
Project Trips (Vehicles)	53	260	32	4	36	4	29	33
Project Trips (PCE)	53	329	40	4	44	4	36	40
Estimated Trucks		56	7	1	8	1	6	7

[1]Trip generation rates for peak hour of adjacent streets, per the ITE Trip Generation Manual 10th Edition.

Task 3.2 Impact Analysis

Given the Covid conditions, Kittelson will rely on historical counts from prior studies in the vicinity to quantify complete analysis of impacts, including traffic level of service (LOS) impacts at the following roadway segments:

1. Washington Avenue
2. Halcyon Drive
3. San Leandro Boulevard
4. 143rd Street

The roadway segment analysis will use HCM methods to determine if the added traffic causes LOS operational deficiencies (previously known as impacts) based on City LOS guidelines.

And the following three study intersections:

1. Washington Avenue/ San Leandro Boulevard
2. Washington Avenue/ 143rd Street
3. Washington Avenue/ Halcyon Drive

The analysis will be conducted for the following scenarios to determine if the added traffic causes LOS impacts based on City guidelines:

1. Existing
2. Existing plus Project
3. Cumulative
4. Cumulative plus Project

The existing scenario will be based on recent historic counts factored up to 2022 using an appropriate growth factor. The cumulative scenario will be based on 2040 volumes from the ACTC Countywide model (or extracted from nearby prior studies for consistency).

Kittelson will utilize the Synchro software to compute the LOS and determine if the proposed project creates operational deficiencies (impacts) under the City's General Plan significance criteria.

Should any offsite operational deficiencies be identified, then Kittelson will propose feasible mitigations or improvements (usually signal modifications, signing or striping or right of way).

Appropriate fair share will be computed so the City can assign cost sharing with other nearby projects undergoing approval and may have disclosed similar improvements.

A review of potential left turns out of or into the project driveways from the northbound Washington Avenue will also be conducted, especially for the trucks, including any queuing impacts. If the right of way or proximity to 143rd Avenue prevents left turns (especially at the southern driveway), then northbound turn prohibitions may need to be applied.

Since it is expected this project will generate less than 100 PM peak hour trips, no ACTC CMP analysis will be conducted.

Task 3.3 – Site Analysis, Parking and Trucks

Kittelson will prepare a site review, access analysis, parking, and truck analysis. The analysis may include the following:

- Site access and site circulation review
- Driveway access review
- Number, time & frequency of trucks per day
- Truck turning templates using WB-67 showing truck turning from parking lane
- Review of signing and striping (onsite and offsite) (if available)
- Parking supply analysis
- Bicycle, pedestrian, and transit evaluation

Task 4 – Traffic Report

Kittelson will document the results of all tasks in a draft traffic report be submitted to the Applicant and City of San Leandro. Following two (2) rounds of review, the first by the project team and the second by City staff, Kittelson will finalize the traffic report. One (1) phone meeting with City staff is assumed to discuss the findings.

Note:

This scope does not include preparatory time (graphics and handouts) or attendance time for any public hearings or meetings beyond those scoped above. All client requests for additional presentations and meetings of this nature will be accommodated on a time-and-materials (T&M) basis and will be considered additional services.

SCHEDULE

Kittelson will deliver the draft traffic report to the Applicant within 8 weeks of receiving the executed contract and notice to proceed. The schedule may be equitably adjusted due to unforeseen events related to the development program or City of San Leandro requirements.

BUDGET

Kittelson has estimated the cost at $33,000 based on our staff hourly billing rates (attached) and time and materials. Kittelson will invoice monthly based on time and materials showing progress for that period until the project is completed. The maximum authorized budget will not be exceeded without a written signed amendment.

Should the project description or City requirements change once the study has commenced that require a revision to the scope, then this will be addressed as a separate amendment to the project based on time and materials cost.

Task 4 – Traffic Report

Kittelson will document the results of all tasks in a draft traffic report be submitted to the Applicant and City of San Leandro. Following two (2) rounds of review, the first by the project team and the second by City staff, Kittelson will finalize the traffic report. One (1) phone meeting with City staff is assumed to discuss the findings.

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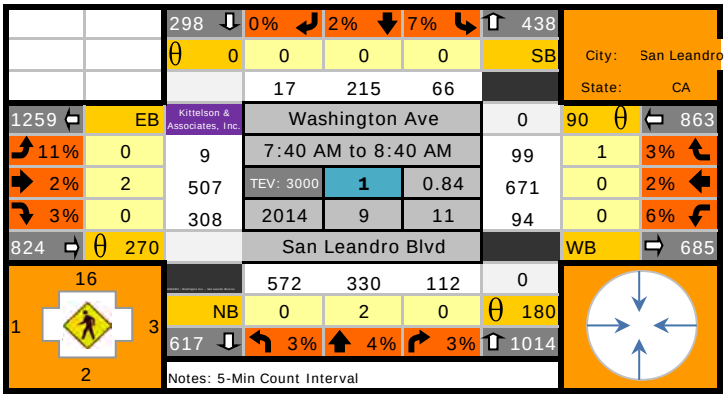
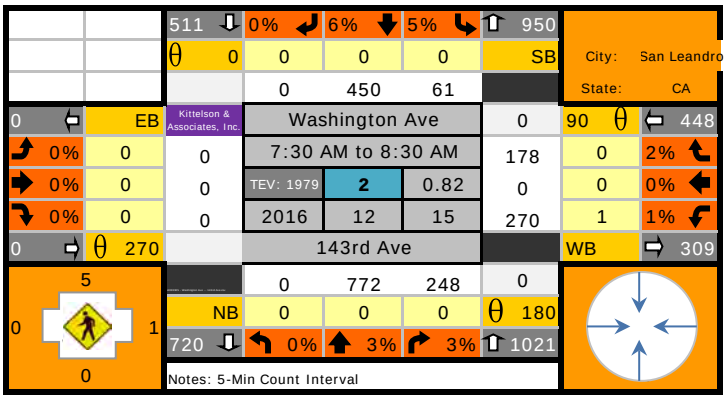
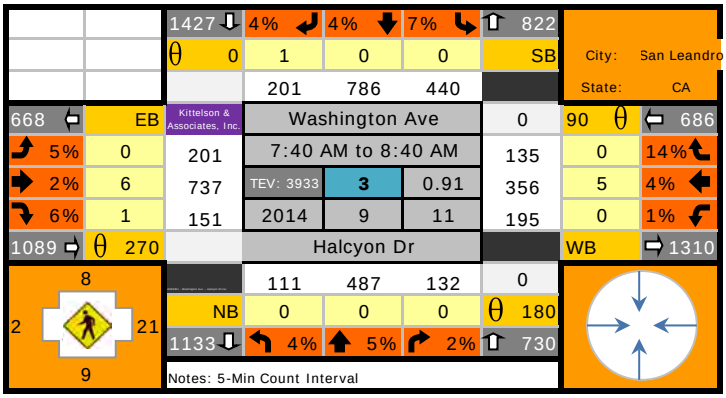
Should the project description or City requirements change once the study has commenced that require a revision to the scope, then this will be addressed as a separate amendment to the project based on time and materials cost.

Appendix B - Existing Traffic Counts

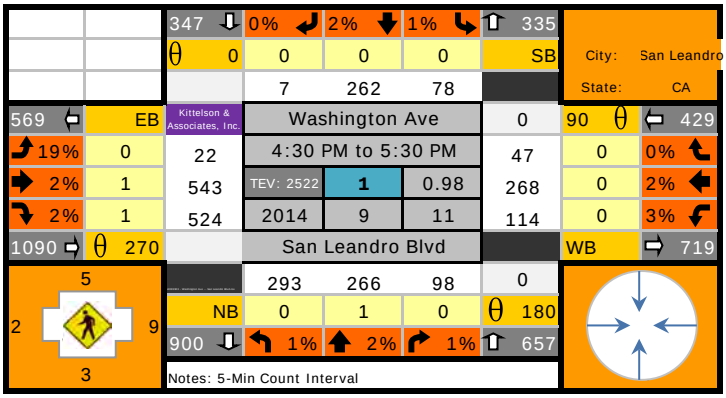
Weekday AM Peak Traffic Counts

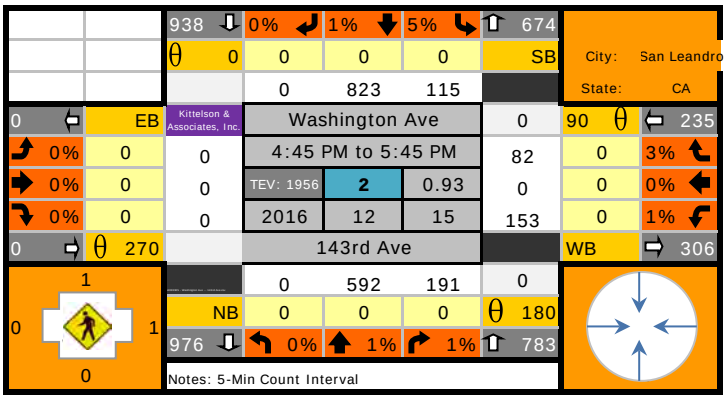


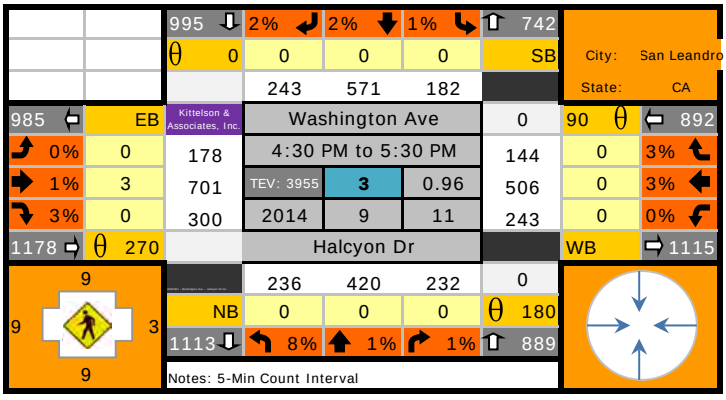




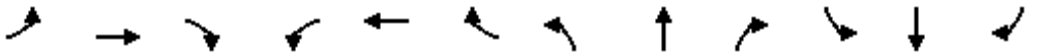
Weekday PM Peak Traffic Counts







Appendix C - Existing Traffic Conditions Synchro Report



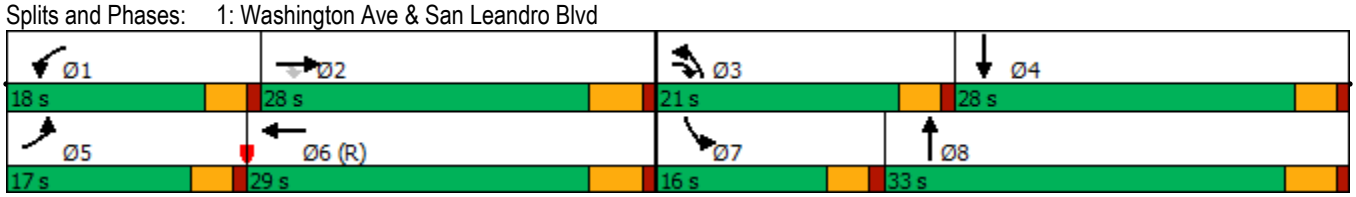
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	9	507	308	94	671	99	572	330	112	66	215	17
Future Volume (vph)	9	507	308	94	671	99	572	330	112	66	215	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	140		150	90		0	120		0	80		0
Storage Lanes	1		1	1		0	2		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95	0.95	0.97	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor	1.00		0.99	1.00	1.00		1.00	1.00		1.00	1.00	
Frt			0.850		0.981			0.962			0.989	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1626	3539	1568	1703	3455	0	3400	3334	0	1687	3502	0
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1619	3539	1545	1701	3455	0	3396	3334	0	1685	3502	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			331		16			50			8	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		977			1135			2886			891	
Travel Time (s)		22.2			25.8			65.6			20.3	
Confl. Peds. (#/hr)	16		2	2		16	1		3	3		1
Confl. Bikes (#/hr)			2						2			
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Heavy Vehicles (%)	11%	2%	3%	6%	2%	3%	3%	4%	3%	7%	2%	0%
Adj. Flow (vph)	11	604	367	112	799	118	681	393	133	79	256	20
Shared Lane Traffic (%)												
Lane Group Flow (vph)	11	604	367	112	917	0	681	526	0	79	276	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway 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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2		1	2		1	2	
Detector Template	Left	Thru	Right	Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100	20	20	100		20	100		20	100	
Trailing Detector (ft)	0	0	0	0	0		0	0		0	0	
Detector 1 Position(ft)	0	0	0	0	0		0	0		0	0	
Detector 1 Size(ft)	20	6	20	20	6		20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												

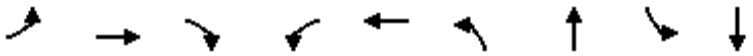
Lanes, Volumes, Timings
1: Washington Ave & San Leandro Blvd 05/20/2022

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Prot	NA	pm+ov	Prot	NA		Prot	NA		Prot	NA	
Protected Phases	5	2	3	1	6		3	8		7	4	
Permitted Phases			2									
Detector Phase	5	2	3	1	6		3	8		7	4	
Switch Phase												
Minimum Initial (s)	4.0	4.0	4.0	4.0	4.0		4.0	4.0		4.0	4.0	
Minimum Split (s)	8.0	34.9	8.0	8.0	32.9		8.0	33.6		8.0	34.0	
Total Split (s)	17.0	28.0	21.0	18.0	29.0		21.0	33.0		16.0	28.0	
Total Split (%)	17.9%	29.5%	22.1%	18.9%	30.5%		22.1%	34.7%		16.8%	29.5%	
Maximum Green (s)	13.0	23.1	17.0	14.0	24.1		17.0	28.4		12.0	24.0	
Yellow Time (s)	3.0	3.9	3.0	3.0	3.9		3.0	3.6		3.0	3.0	
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Lead/Lag	Lead	Lag	Lead	Lead	Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes		Yes	Yes		Yes	Yes	
Vehicle Extension (s)	2.0	3.0	2.0	2.0	3.0		2.0	3.0		2.0	3.0	
Minimum Gap (s)	2.0	2.0	2.0	2.0	2.0		2.0	2.0		2.0	2.0	
Time Before Reduce (s)	3.0	13.0	7.0	5.0	12.0		7.0	9.0		6.0	9.0	
Time To Reduce (s)	4.0	15.0	8.0	6.0	13.0		8.0	10.0		7.0	11.0	
Recall Mode	None	Min	None	None	C-Min		None	None		None	None	
Walk Time (s)		7.0			7.0			7.0			7.0	
Flash Dont Walk (s)		23.0			21.0			22.0			23.0	
Pedestrian Calls (#/hr)		5			5			5			5	
Act Effct Green (s)	5.3	36.2	54.1	10.3	48.4		17.0	24.1		8.7	14.6	
Actuated g/C Ratio	0.06	0.38	0.57	0.11	0.51		0.18	0.25		0.09	0.15	
v/c Ratio	0.12	0.45	0.36	0.61	0.52		1.12	0.60		0.52	0.51	
Control Delay	45.1	25.2	3.2	53.6	18.7		111.5	31.4		52.3	38.1	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	45.1	25.2	3.2	53.6	18.7		111.5	31.4		52.3	38.1	
LOS	D	C	A	D	B		F	C		D	D	
Approach Delay		17.2			22.5			76.6			41.3	
Approach LOS		B			C			E			D	

Intersection Summary			
Area Type:	Other		
Cycle Length: 95			
Actuated Cycle Length: 95			
Offset: 39 (41%), Referenced to phase 6:WBT, Start of Green			
Natural Cycle: 95			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 1.12			
Intersection Signal Delay: 41.2		Intersection LOS: D	
Intersection Capacity Utilization 64.2%		ICU Level of Service C	
Analysis Period (min) 15			

Splits and Phases: 1: Washington Ave & San Leandro Blvd



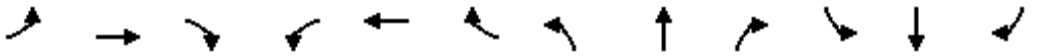


Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	11	604	367	112	917	681	526	79	276
v/c Ratio	0.12	0.45	0.36	0.61	0.52	1.12	0.60	0.52	0.51
Control Delay	45.1	25.2	3.2	53.6	18.7	111.5	31.4	52.3	38.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	45.1	25.2	3.2	53.6	18.7	111.5	31.4	52.3	38.1
Queue Length 50th (ft)	6	136	8	65	163	~245	141	46	81
Queue Length 95th (ft)	22	216	47	108	307	#319	159	83	96
Internal Link Dist (ft)		897			1055		2806		811
Turn Bay Length (ft)	140		150	90		120		80	
Base Capacity (vph)	222	1348	1026	250	1768	608	1039	213	890
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.05	0.45	0.36	0.45	0.52	1.12	0.51	0.37	0.31

Intersection Summary

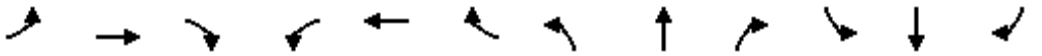
~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	9	507	308	94	671	99	572	330	112	66	215	17
Future Volume (vph)	9	507	308	94	671	99	572	330	112	66	215	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95		0.97	0.95		1.00	0.95	
Frpb, ped/bikes	1.00	1.00	0.99	1.00	1.00		1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00	
Frt	1.00	1.00	0.85	1.00	0.98		1.00	0.96		1.00	0.99	
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1626	3539	1552	1703	3454		3400	3334		1687	3502	
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1626	3539	1552	1703	3454		3400	3334		1687	3502	
Peak-hour factor, PHF	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Adj. Flow (vph)	11	604	367	112	799	118	681	393	133	79	256	20
RTOR Reduction (vph)	0	0	148	0	9	0	0	37	0	0	7	0
Lane Group Flow (vph)	11	604	219	112	908	0	681	489	0	79	269	0
Confl. Peds. (#/hr)	16		2	2		16	1		3	3		1
Confl. Bikes (#/hr)			2						2			
Heavy Vehicles (%)	11%	2%	3%	6%	2%	3%	3%	4%	3%	7%	2%	0%
Turn Type	Prot	NA	pm+ov	Prot	NA		Prot	NA		Prot	NA	
Protected Phases	5	2	3	1	6		3	8		7	4	
Permitted Phases			2									
Actuated Green, G (s)	1.3	35.4	52.4	10.3	44.4		17.0	24.1		7.7	15.4	
Effective Green, g (s)	1.3	35.4	52.4	10.3	44.4		17.0	24.1		7.7	15.4	
Actuated g/C Ratio	0.01	0.37	0.55	0.11	0.47		0.18	0.25		0.08	0.16	
Clearance Time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Vehicle Extension (s)	2.0	3.0	2.0	2.0	3.0		2.0	3.0		2.0	3.0	
Lane Grp Cap (vph)	22	1318	856	184	1614		608	845		136	567	
v/s Ratio Prot	0.01	0.17	0.05	c0.07	c0.26		c0.20	c0.15		0.05	0.08	
v/s Ratio Perm			0.10									
v/c Ratio	0.50	0.46	0.26	0.61	0.56		1.12	0.58		0.58	0.47	
Uniform Delay, d1	46.5	22.5	11.1	40.4	18.3		39.0	31.0		42.1	36.1	
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	6.4	0.3	0.1	3.9	1.4		74.2	1.0		4.0	0.6	
Delay (s)	52.9	22.8	11.2	44.3	19.7		113.2	32.0		46.1	36.8	
Level of Service	D	C	B	D	B		F	C		D	D	
Approach Delay (s)		18.8			22.4			77.8			38.8	
Approach LOS		B			C			E			D	

Intersection Summary			
HCM 2000 Control Delay	41.7	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.73		
Actuated Cycle Length (s)	95.0	Sum of lost time (s)	17.5
Intersection Capacity Utilization	64.2%	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 (veh/h)	9	507	308	94	671	99	572	330	112	66	215	17
Future Volume (veh/h)	9	507	308	94	671	99	572	330	112	66	215	17
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	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	1737	1870	1856	1811	1870	1856	1856	1841	1856	1796	1870	1900
Adj Flow Rate, veh/h	11	604	367	112	799	118	681	393	0	79	256	0
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Percent Heavy Veh, %	11	2	3	6	2	3	3	4	3	7	2	0
Cap, veh/h	18	826	634	140	938	139	613	825		100	411	
Arrive On Green	0.01	0.23	0.23	0.08	0.30	0.30	0.18	0.24	0.00	0.06	0.12	0.00
Sat Flow, veh/h	1654	3554	1519	1725	3099	458	3428	3589	0	1711	3647	0
Grp Volume(v), veh/h	11	604	367	112	458	459	681	393	0	79	256	0
Grp Sat Flow(s),veh/h/ln	1654	1777	1519	1725	1777	1779	1714	1749	0	1711	1777	0
Q Serve(g_s), s	0.6	14.9	17.8	6.1	23.0	23.0	17.0	9.2	0.0	4.3	6.5	0.0
Cycle Q Clear(g_c), s	0.6	14.9	17.8	6.1	23.0	23.0	17.0	9.2	0.0	4.3	6.5	0.0
Prop In Lane	1.00		1.00	1.00		0.26	1.00		0.00	1.00		0.00
Lane Grp Cap(c), veh/h	18	826	634	140	538	539	613	825		100	411	
V/C Ratio(X)	0.63	0.73	0.58	0.80	0.85	0.85	1.11	0.48		0.79	0.62	
Avail Cap(c_a), veh/h	226	864	651	254	538	539	613	1046		216	898	
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	0.58	0.58	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	46.8	33.7	21.7	42.9	31.1	31.1	39.0	31.3	0.0	44.1	40.0	0.0
Incr Delay (d2), s/veh	12.8	3.1	1.2	4.0	15.5	15.5	63.0	0.2	0.0	5.1	1.6	0.0
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(50%),veh/ln	0.3	6.7	6.3	2.7	11.9	11.9	12.4	3.8	0.0	2.0	2.9	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	59.7	36.8	22.9	46.9	46.7	46.6	102.0	31.5	0.0	49.2	41.6	0.0
LnGrp LOS	E	D	C	D	D	D	F	C		D	D	
Approach Vol, veh/h		982			1029			1074	A		335	A
Approach Delay, s/veh		31.9			46.7			76.2			43.4	
Approach LOS		C			D			E			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.7	27.0	21.0	15.6	5.0	33.7	9.6	27.0
Change Period (Y+Rc), s	4.0	4.9	4.0	* 4.6	4.0	4.9	4.0	4.6
Max Green Setting (Gmax), s	14.0	23.1	17.0	* 24	13.0	24.1	12.0	28.4
Max Q Clear Time (g_c+I1), s	8.1	19.8	19.0	8.5	2.6	25.0	6.3	11.2
Green Ext Time (p_c), s	0.1	1.7	0.0	1.4	0.0	0.0	0.0	2.4

Intersection Summary	
HCM 6th Ctrl Delay	51.4
HCM 6th LOS	D

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.

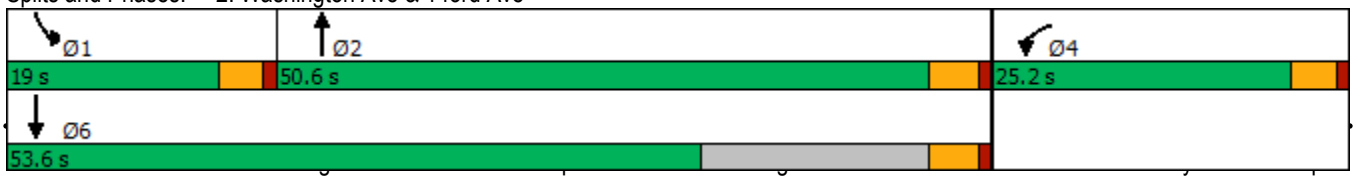
Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	270	178	772	248	61	450
Future Volume (vph)	270	178	772	248	61	450
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	90		0	100	
Storage Lanes	2	1		0	1	
Taper Length (ft)	25				25	
Lane Util. Factor	0.97	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	0.99		0.99		1.00	
Frt	0.940		0.964			
Flt Protected	0.971				0.950	
Satd. Flow (prot)	3278	0	3360	0	1719	3406
Flt Permitted	0.971				0.950	
Satd. Flow (perm)	3278	0	3360	0	1718	3406
Right Turn on Red		Yes		Yes		
Satd. Flow (RTOR)	163		63			
Link Speed (mph)	30		30			30
Link Distance (ft)	1330		895			2886
Travel Time (s)	30.2		20.3			65.6
Confl. Peds. (#/hr)		5		1	1	
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82
Heavy Vehicles (%)	1%	2%	3%	3%	5%	6%
Adj. Flow (vph)	329	217	941	302	74	549
Shared Lane Traffic (%)						
Lane Group Flow (vph)	546	0	1243	0	74	549
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	24		24			24
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Number of Detectors	1		2		1	2
Detector Template	Left		Thru		Left	Thru
Leading Detector (ft)	20		100		20	100
Trailing Detector (ft)	0		0		0	0
Detector 1 Position(ft)	0		0		0	0
Detector 1 Size(ft)	20		6		20	6
Detector 1 Type	Cl+Ex		Cl+Ex		Cl+Ex	Cl+Ex
Detector 1 Channel						
Detector 1 Extend (s)	0.0		0.0		0.0	0.0
Detector 1 Queue (s)	0.0		0.0		0.0	0.0
Detector 1 Delay (s)	0.0		0.0		0.0	0.0
Detector 2 Position(ft)			94			94
Detector 2 Size(ft)			6			6
Detector 2 Type			Cl+Ex			Cl+Ex
Detector 2 Channel						
Detector 2 Extend (s)			0.0			0.0

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Turn Type	Prot		NA		Prot	NA
Protected Phases	4		2		1	6
Permitted Phases						
Detector Phase	4		2		1	6
Switch Phase						
Minimum Initial (s)	6.0		6.0		4.0	6.0
Minimum Split (s)	26.2		21.6		8.0	10.6
Total Split (s)	25.2		50.6		19.0	53.6
Total Split (%)	26.6%		53.4%		20.0%	56.5%
Maximum Green (s)	21.0		46.0		15.0	49.0
Yellow Time (s)	3.2		3.6		3.0	3.6
All-Red Time (s)	1.0		1.0		1.0	1.0
Lost Time Adjust (s)	0.0		0.0		0.0	0.0
Total Lost Time (s)	4.2		4.6		4.0	4.6
Lead/Lag			Lag		Lead	
Lead-Lag Optimize?			Yes		Yes	
Vehicle Extension (s)	2.0		2.0		2.0	2.0
Minimum Gap (s)	2.0		3.0		2.0	3.0
Time Before Reduce (s)	7.0		22.0		5.0	22.0
Time To Reduce (s)	9.0		30.0		6.0	30.0
Recall Mode	None		Min		None	Min
Walk Time (s)	7.0		7.0			
Flash Dont Walk (s)	15.0		10.0			
Pedestrian Calls (#/hr)	5		5			
Act Effct Green (s)	14.0		31.2		8.1	40.3
Actuated g/C Ratio	0.22		0.48		0.13	0.62
v/c Ratio	0.65		0.75		0.34	0.26
Control Delay	22.2		17.0		36.9	5.4
Queue Delay	0.0		0.0		0.0	0.0
Total Delay	22.2		17.0		36.9	5.4
LOS	C		B		D	A
Approach Delay	22.2		17.0			9.1
Approach LOS	C		B			A

Intersection Summary			
Area Type:	Other		
Cycle Length: 94.8			
Actuated Cycle Length: 64.5			
Natural Cycle: 65			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.75			
Intersection Signal Delay: 16.2		Intersection LOS: B	
Intersection Capacity Utilization 57.6%		ICU Level of Service B	
Analysis Period (min) 15			

Splits and Phases: 2: Washington Ave & 143rd Ave



Lane Group	WBL	NBT	SBL	SBT
Lane Group Flow (vph)	546	1243	74	549
v/c Ratio	0.65	0.75	0.34	0.26
Control Delay	22.2	17.0	36.9	5.4
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	22.2	17.0	36.9	5.4
Queue Length 50th (ft)	70	189	28	38
Queue Length 95th (ft)	134	304	75	72
Internal Link Dist (ft)	1250	815		2806
Turn Bay Length (ft)			100	
Base Capacity (vph)	1349	2449	464	3075
Starvation Cap Reductn	0	0	0	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.40	0.51	0.16	0.18

Intersection Summary

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	270	178	772	248	61	450
Future Volume (vph)	270	178	772	248	61	450
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.2		4.6		4.0	4.6
Lane Util. Factor	0.97		0.95		1.00	0.95
Frpb, ped/bikes	0.99		0.99		1.00	1.00
Flpb, ped/bikes	1.00		1.00		1.00	1.00
Frt	0.94		0.96		1.00	1.00
Flt Protected	0.97		1.00		0.95	1.00
Satd. Flow (prot)	3283		3359		1719	3406
Flt Permitted	0.97		1.00		0.95	1.00
Satd. Flow (perm)	3283		3359		1719	3406
Peak-hour factor, PHF	0.82	0.82	0.82	0.82	0.82	0.82
Adj. Flow (vph)	329	217	941	302	74	549
RTOR Reduction (vph)	127	0	32	0	0	0
Lane Group Flow (vph)	419	0	1211	0	74	549
Confl. Peds. (#/hr)		5		1	1	
Heavy Vehicles (%)	1%	2%	3%	3%	5%	6%
Turn Type	Prot		NA		Prot	NA
Protected Phases	4		2		1	6
Permitted Phases						
Actuated Green, G (s)	14.0		31.2		6.2	41.4
Effective Green, g (s)	14.0		31.2		6.2	41.4
Actuated g/C Ratio	0.22		0.49		0.10	0.64
Clearance Time (s)	4.2		4.6		4.0	4.6
Vehicle Extension (s)	2.0		2.0		2.0	2.0
Lane Grp Cap (vph)	715		1632		166	2196
v/s Ratio Prot	c0.13		c0.36		c0.04	0.16
v/s Ratio Perm						
v/c Ratio	0.59		0.74		0.45	0.25
Uniform Delay, d1	22.5		13.3		27.4	4.8
Progression Factor	1.00		1.00		1.00	1.00
Incremental Delay, d2	0.8		1.6		0.7	0.0
Delay (s)	23.3		14.9		28.1	4.8
Level of Service	C		B		C	A
Approach Delay (s)	23.3		14.9			7.6
Approach LOS	C		B			A

Intersection Summary			
HCM 2000 Control Delay	14.9	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.66		
Actuated Cycle Length (s)	64.2	Sum of lost time (s)	12.8
Intersection Capacity Utilization	57.6%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	270	178	772	248	61	450
Future Volume (veh/h)	270	178	772	248	61	450
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	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	1885	1870	1856	1856	1826	1811
Adj Flow Rate, veh/h	273	0	941	302	74	549
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82
Percent Heavy Veh, %	1	2	3	3	5	6
Cap, veh/h	341		1261	403	92	2133
Arrive On Green	0.19	0.00	0.48	0.48	0.05	0.62
Sat Flow, veh/h	1795	1585	2720	839	1739	3532
Grp Volume(v), veh/h	273	0	630	613	74	549
Grp Sat Flow(s),veh/h/ln	1795	1585	1763	1703	1739	1721
Q Serve(g_s), s	6.7	0.0	13.4	13.5	1.9	3.3
Cycle Q Clear(g_c), s	6.7	0.0	13.4	13.5	1.9	3.3
Prop In Lane	1.00	1.00		0.49	1.00	
Lane Grp Cap(c), veh/h	341		846	818	92	2133
V/C Ratio(X)	0.80		0.74	0.75	0.80	0.26
Avail Cap(c_a), veh/h	816		1755	1696	565	3649
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	17.9	0.0	9.7	9.7	21.6	4.0
Incr Delay (d2), s/veh	1.7	0.0	0.5	0.5	5.9	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.6	0.0	3.8	3.7	0.9	0.7
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	19.6	0.0	10.2	10.3	27.6	4.0
LnGrp LOS	B		B	B	C	A
Approach Vol, veh/h	273	A	1243			623
Approach Delay, s/veh	19.6		10.2			6.8
Approach LOS	B		B			A

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	6.5	26.8		13.0		33.2
Change Period (Y+Rc), s	4.0	4.6		* 4.2		4.6
Max Green Setting (Gmax), s	15.0	46.0		* 21		49.0
Max Q Clear Time (g_c+I1), s	3.9	15.5		8.7		5.3
Green Ext Time (p_c), s	0.1	6.7		0.3		2.7

Intersection Summary	
HCM 6th Ctrl Delay	10.4
HCM 6th LOS	B

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

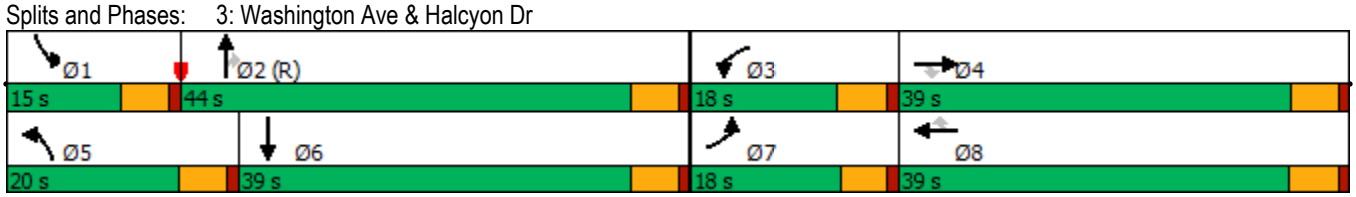
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	201	737	151	195	356	135	111	487	132	440	786	201
Future Volume (vph)	201	737	151	195	356	135	111	487	132	440	786	201
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	140		170	225		25	145		225	195		100
Storage Lanes	2		1	2		1	2		1	2		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.91	1.00
Ped Bike Factor	0.99		0.97	1.00		0.97	1.00		0.97	0.98		0.99
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3335	3539	1524	3467	3471	1417	3367	3438	1583	3273	4988	1553
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3303	3539	1482	3454	3471	1381	3365	3438	1529	3213	4988	1533
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			133			118			145			169
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		465			456			1136			1014	
Travel Time (s)		10.6			10.4			25.8			23.0	
Confl. Peds. (#/hr)	8		9	9		8	2		21	21		2
Confl. Bikes (#/hr)			6			5						
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles (%)	5%	2%	6%	1%	4%	14%	4%	5%	2%	7%	4%	4%
Adj. Flow (vph)	221	810	166	214	391	148	122	535	145	484	864	221
Shared Lane Traffic (%)												
Lane Group Flow (vph)	221	810	166	214	391	148	122	535	145	484	864	221
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		24			24			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane					Yes							
Headway 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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2	1	1	2	1	1	2	1
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Leading Detector (ft)	20	100	20	20	100	20	20	100	20	20	100	20
Trailing Detector (ft)	0	0	0	0	0	0	0	0	0	0	0	0
Detector 1 Position(ft)	0	0	0	0	0	0	0	0	0	0	0	0
Detector 1 Size(ft)	20	6	20	20	6	20	20	6	20	20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												

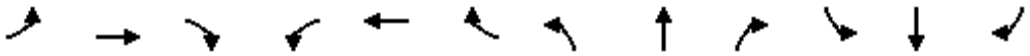
Lanes, Volumes, Timings
3: Washington Ave & Halcyon Dr 05/20/2022

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Free
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			Free
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	
Switch Phase												
Minimum Initial (s)	8.0	12.0	12.0	4.0	8.0	8.0	4.0	9.0	9.0	5.0	9.0	
Minimum Split (s)	13.1	33.1	33.1	9.4	33.4	33.4	9.1	37.1	37.1	10.1	35.1	
Total Split (s)	18.0	39.0	39.0	18.0	39.0	39.0	20.0	44.0	44.0	15.0	39.0	
Total Split (%)	15.5%	33.6%	33.6%	15.5%	33.6%	33.6%	17.2%	37.9%	37.9%	12.9%	33.6%	
Maximum Green (s)	12.9	33.9	33.9	12.6	33.6	33.6	14.9	38.9	38.9	9.9	33.9	
Yellow Time (s)	4.1	4.1	4.1	4.4	4.4	4.4	4.1	4.1	4.1	4.1	4.1	
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Minimum Gap (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Time Before Reduce (s)	4.0	7.0	7.0	3.0	6.0	6.0	4.0	5.0	5.0	5.0	7.0	
Time To Reduce (s)	5.0	9.0	9.0	4.0	8.0	8.0	5.0	7.0	7.0	7.0	10.0	
Recall Mode	None	None	None	None	None	None	None	C-Min	C-Min	None	Min	
Walk Time (s)		6.0	6.0		6.0	6.0		6.0	6.0		6.0	
Flash Dont Walk (s)		22.0	22.0		22.0	22.0		26.0	26.0		24.0	
Pedestrian Calls (#/hr)		5	5		5	5		5	5		5	
Act Effct Green (s)	13.2	32.7	32.7	12.8	32.2	32.2	10.5	30.1	30.1	19.7	39.3	116.0
Actuated g/C Ratio	0.11	0.28	0.28	0.11	0.28	0.28	0.09	0.26	0.26	0.17	0.34	1.00
v/c Ratio	0.58	0.81	0.32	0.56	0.41	0.32	0.40	0.60	0.29	0.87	0.51	0.14
Control Delay	55.0	46.0	10.1	54.6	35.1	10.6	53.3	40.0	6.2	65.8	33.1	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	55.0	46.0	10.1	54.6	35.1	10.6	53.3	40.0	6.2	65.8	33.1	0.2
LOS	D	D	B	D	D	B	D	D	A	E	C	A
Approach Delay		42.7			35.8			35.9			38.6	
Approach LOS		D			D			D			D	

Intersection Summary			
Area Type:	Other		
Cycle Length: 116			
Actuated Cycle Length: 116			
Offset: 98 (84%), Referenced to phase 2:NBT, Start of Green			
Natural Cycle: 105			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.87			
Intersection Signal Delay: 38.7		Intersection LOS: D	
Intersection Capacity Utilization 83.2%		ICU Level of Service E	
Analysis Period (min) 15			

Splits and Phases: 3: Washington Ave & Halcyon Dr



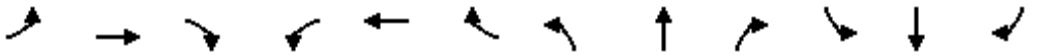


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	221	810	166	214	391	148	122	535	145	484	864	221
v/c Ratio	0.58	0.81	0.32	0.56	0.41	0.32	0.40	0.60	0.29	0.87	0.51	0.14
Control Delay	55.0	46.0	10.1	54.6	35.1	10.6	53.3	40.0	6.2	65.8	33.1	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	55.0	46.0	10.1	54.6	35.1	10.6	53.3	40.0	6.2	65.8	33.1	0.2
Queue Length 50th (ft)	81	290	18	78	122	16	44	184	0	~191	194	0
Queue Length 95th (ft)	121	368	72	118	168	68	74	221	45	#382	247	0
Internal Link Dist (ft)		385			376			1056			934	
Turn Bay Length (ft)	140		170	225		25	145		225	195		100
Base Capacity (vph)	398	1055	535	402	1023	490	432	1152	609	556	1706	1533
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.56	0.77	0.31	0.53	0.38	0.30	0.28	0.46	0.24	0.87	0.51	0.14

Intersection Summary

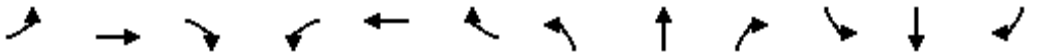
~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	201	737	151	195	356	135	111	487	132	440	786	201
Future Volume (vph)	201	737	151	195	356	135	111	487	132	440	786	201
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	4.0
Lane Util. Factor	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.91	1.00
Frpb, ped/bikes	1.00	1.00	0.97	1.00	1.00	0.97	1.00	1.00	0.97	1.00	1.00	0.99
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3335	3539	1482	3467	3471	1380	3367	3438	1529	3273	4988	1533
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3335	3539	1482	3467	3471	1380	3367	3438	1529	3273	4988	1533
Peak-hour factor, PHF	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Adj. Flow (vph)	221	810	166	214	391	148	122	535	145	484	864	221
RTOR Reduction (vph)	0	0	96	0	0	85	0	0	107	0	0	0
Lane Group Flow (vph)	221	810	70	214	391	63	122	535	38	484	864	221
Confl. Peds. (#/hr)	8		9	9		8	2		21	21		2
Confl. Bikes (#/hr)			6			5						
Heavy Vehicles (%)	5%	2%	6%	1%	4%	14%	4%	5%	2%	7%	4%	4%
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Free
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			Free
Actuated Green, G (s)	13.2	32.7	32.7	12.8	32.3	32.3	10.5	30.1	30.1	19.7	39.3	116.0
Effective Green, g (s)	13.2	32.7	32.7	12.8	32.3	32.3	10.5	30.1	30.1	19.7	39.3	116.0
Actuated g/C Ratio	0.11	0.28	0.28	0.11	0.28	0.28	0.09	0.26	0.26	0.17	0.34	1.00
Clearance Time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	
Vehicle Extension (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Lane Grp Cap (vph)	379	997	417	382	966	384	304	892	396	555	1689	1533
v/s Ratio Prot	c0.07	c0.23		0.06	0.11		0.04	c0.16		c0.15	0.17	
v/s Ratio Perm			0.05			0.05			0.02			c0.14
v/c Ratio	0.58	0.81	0.17	0.56	0.40	0.16	0.40	0.60	0.10	0.87	0.51	0.14
Uniform Delay, d1	48.8	38.8	31.4	48.9	34.0	31.6	49.8	37.7	32.6	46.9	30.7	0.0
Progression 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
Incremental Delay, d2	2.7	5.4	0.3	2.3	0.4	0.3	1.2	3.0	0.5	14.5	0.3	0.2
Delay (s)	51.5	44.2	31.7	51.2	34.4	31.9	51.0	40.6	33.1	61.4	31.0	0.2
Level of Service	D	D	C	D	C	C	D	D	C	E	C	A
Approach Delay (s)		43.8			38.7			40.8			36.0	
Approach LOS		D			D			D			D	

Intersection Summary			
HCM 2000 Control Delay	39.5	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.73		
Actuated Cycle Length (s)	116.0	Sum of lost time (s)	20.7
Intersection Capacity Utilization	83.2%	ICU Level of Service	E
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)	201	737	151	195	356	135	111	487	132	440	786	201
Future Volume (veh/h)	201	737	151	195	356	135	111	487	132	440	786	201
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.97	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	1826	1870	1811	1885	1841	1693	1841	1826	1870	1796	1841	1841
Adj Flow Rate, veh/h	221	810	166	214	391	148	122	535	0	484	864	0
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	5	2	6	1	4	14	4	5	2	7	4	4
Cap, veh/h	284	954	401	280	934	373	184	1335		283	2091	
Arrive On Green	0.08	0.27	0.27	0.08	0.27	0.27	0.05	0.38	0.00	0.09	0.42	0.00
Sat Flow, veh/h	3374	3554	1494	3483	3497	1397	3401	3469	1585	3319	5025	1560
Grp Volume(v), veh/h	221	810	166	214	391	148	122	535	0	484	864	0
Grp Sat Flow(s),veh/h/ln	1687	1777	1494	1742	1749	1397	1700	1735	1585	1659	1675	1560
Q Serve(g_s), s	7.4	25.1	10.6	7.0	10.7	10.1	4.1	13.0	0.0	9.9	14.1	0.0
Cycle Q Clear(g_c), s	7.4	25.1	10.6	7.0	10.7	10.1	4.1	13.0	0.0	9.9	14.1	0.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	284	954	401	280	934	373	184	1335		283	2091	
V/C Ratio(X)	0.78	0.85	0.41	0.77	0.42	0.40	0.66	0.40		1.71	0.41	
Avail Cap(c_a), veh/h	375	1039	437	378	1013	405	437	1335		283	2091	
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	0.00	0.84	0.84	0.00
Uniform Delay (d), s/veh	52.0	40.2	34.9	52.3	35.1	34.9	53.8	25.9	0.0	53.0	23.9	0.0
Incr Delay (d2), s/veh	8.8	6.7	1.0	7.8	0.4	1.0	5.7	0.9	0.0	331.3	0.2	0.0
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(50%),veh/ln	3.5	11.7	4.0	3.4	4.6	3.5	1.9	5.5	0.0	17.1	5.6	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	60.8	46.9	35.9	60.1	35.5	35.8	59.5	26.8	0.0	384.4	24.0	0.0
LnGrp LOS	E	D	D	E	D	D	E	C		F	C	
Approach Vol, veh/h		1197			753			657	A		1348	A
Approach Delay, s/veh		47.9			42.6			32.9			153.4	
Approach LOS		D			D			C			F	

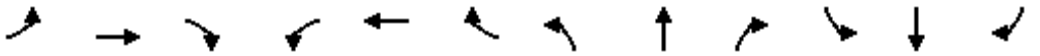
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.0	49.7	14.7	36.5	11.4	53.4	14.9	36.4
Change Period (Y+Rc), s	5.1	5.1	5.4	* 5.4	5.1	5.1	5.1	5.4
Max Green Setting (Gmax), s	9.9	38.9	12.6	* 34	14.9	33.9	12.9	33.6
Max Q Clear Time (g_c+I1), s	11.9	15.0	9.0	27.1	6.1	16.1	9.4	12.7
Green Ext Time (p_c), s	0.0	5.2	0.3	4.1	0.3	7.6	0.3	4.3

Intersection Summary	
HCM 6th Ctrl Delay	80.4
HCM 6th LOS	F

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.



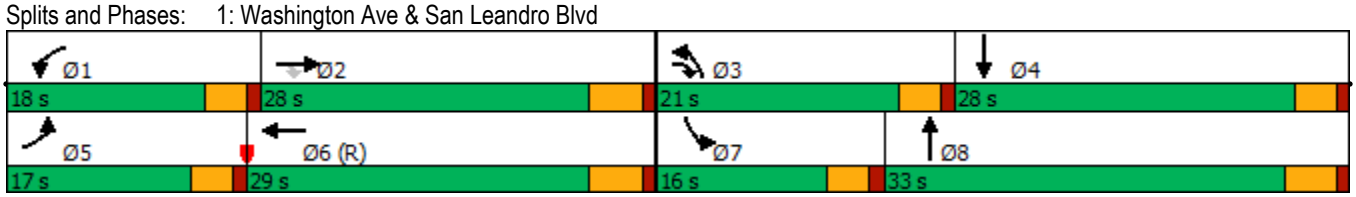
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	22	543	524	114	268	47	293	266	98	78	262	7
Future Volume (vph)	22	543	524	114	268	47	293	266	98	78	262	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	140		150	90		0	120		0	80		0
Storage Lanes	1		1	1		0	2		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95	0.95	0.97	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor	1.00		0.98	1.00	1.00		1.00	0.99		0.99	1.00	
Frt			0.850		0.978			0.960			0.996	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1517	3539	1583	1752	3463	0	3467	3387	0	1787	3526	0
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1512	3539	1559	1750	3463	0	3460	3387	0	1778	3526	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			314		20			57			3	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		977			885			2886			891	
Travel Time (s)		22.2			20.1			65.6			20.3	
Confl. Peds. (#/hr)	5		3	3		5	2		9	9		2
Confl. Bikes (#/hr)			1						1			
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Heavy Vehicles (%)	19%	2%	2%	3%	2%	0%	1%	2%	1%	1%	2%	0%
Adj. Flow (vph)	22	554	535	116	273	48	299	271	100	80	267	7
Shared Lane Traffic (%)												
Lane Group Flow (vph)	22	554	535	116	321	0	299	371	0	80	274	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway 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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2		1	2		1	2	
Detector Template	Left	Thru	Right	Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100	20	20	100		20	100		20	100	
Trailing Detector (ft)	0	0	0	0	0		0	0		0	0	
Detector 1 Position(ft)	0	0	0	0	0		0	0		0	0	
Detector 1 Size(ft)	20	6	20	20	6		20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												

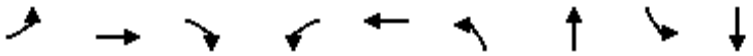
Lanes, Volumes, Timings
1: Washington Ave & San Leandro Blvd 05/20/2022

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Prot	NA	pm+ov	Prot	NA		Prot	NA		Prot	NA	
Protected Phases	5	2	3	1	6		3	8		7	4	
Permitted Phases			2									
Detector Phase	5	2	3	1	6		3	8		7	4	
Switch Phase												
Minimum Initial (s)	4.0	4.0	4.0	4.0	4.0		4.0	4.0		4.0	4.0	
Minimum Split (s)	8.0	34.9	8.0	8.0	32.9		8.0	33.6		8.0	34.0	
Total Split (s)	17.0	28.0	21.0	18.0	29.0		21.0	33.0		16.0	28.0	
Total Split (%)	17.9%	29.5%	22.1%	18.9%	30.5%		22.1%	34.7%		16.8%	29.5%	
Maximum Green (s)	13.0	23.1	17.0	14.0	24.1		17.0	28.4		12.0	24.0	
Yellow Time (s)	3.0	3.9	3.0	3.0	3.9		3.0	3.6		3.0	3.0	
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Lead/Lag	Lead	Lag	Lead	Lead	Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes		Yes	Yes		Yes	Yes	
Vehicle Extension (s)	2.0	3.0	2.0	2.0	3.0		2.0	3.0		2.0	3.0	
Minimum Gap (s)	2.0	2.0	2.0	2.0	2.0		2.0	2.0		2.0	2.0	
Time Before Reduce (s)	3.0	13.0	7.0	5.0	12.0		7.0	9.0		6.0	9.0	
Time To Reduce (s)	4.0	15.0	8.0	6.0	13.0		8.0	10.0		7.0	11.0	
Recall Mode	None	Min	None	None	C-Min		None	None		None	None	
Walk Time (s)		7.0			7.0			7.0			7.0	
Flash Dont Walk (s)		23.0			21.0			22.0			23.0	
Pedestrian Calls (#/hr)		5			5			5			5	
Act Effct Green (s)	6.0	40.9	54.4	10.4	50.7		12.7	19.5		8.5	14.2	
Actuated g/C Ratio	0.06	0.43	0.57	0.11	0.53		0.13	0.21		0.09	0.15	
v/c Ratio	0.23	0.36	0.52	0.61	0.17		0.65	0.50		0.50	0.52	
Control Delay	47.5	21.8	7.0	53.2	14.1		45.4	30.3		51.2	39.4	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	47.5	21.8	7.0	53.2	14.1		45.4	30.3		51.2	39.4	
LOS	D	C	A	D	B		D	C		D	D	
Approach Delay		15.2			24.5			37.0			42.1	
Approach LOS		B			C			D			D	

Intersection Summary			
Area Type:	Other		
Cycle Length: 95			
Actuated Cycle Length: 95			
Offset: 39 (41%), Referenced to phase 6:WBT, Start of Green			
Natural Cycle: 85			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.65			
Intersection Signal Delay: 26.2		Intersection LOS: C	
Intersection Capacity Utilization 59.8%		ICU Level of Service B	
Analysis Period (min) 15			

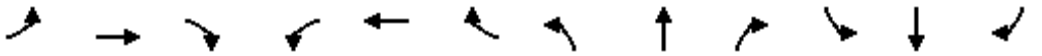
Splits and Phases: 1: Washington Ave & San Leandro Blvd





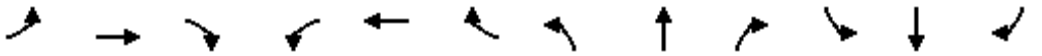
Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	22	554	535	116	321	299	371	80	274
v/c Ratio	0.23	0.36	0.52	0.61	0.17	0.65	0.50	0.50	0.52
Control Delay	47.5	21.8	7.0	53.2	14.1	45.4	30.3	51.2	39.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	47.5	21.8	7.0	53.2	14.1	45.4	30.3	51.2	39.4
Queue Length 50th (ft)	13	112	52	68	38	89	93	47	82
Queue Length 95th (ft)	36	215	182	120	108	125	116	90	105
Internal Link Dist (ft)		897			805		2806		811
Turn Bay Length (ft)	140		150	90		120		80	
Base Capacity (vph)	207	1522	1088	258	1857	620	1052	225	893
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.11	0.36	0.49	0.45	0.17	0.48	0.35	0.36	0.31

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	22	543	524	114	268	47	293	266	98	78	262	7
Future Volume (vph)	22	543	524	114	268	47	293	266	98	78	262	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95		0.97	0.95		1.00	0.95	
Frpb, ped/bikes	1.00	1.00	0.99	1.00	1.00		1.00	0.99		1.00	1.00	
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00	
Frt	1.00	1.00	0.85	1.00	0.98		1.00	0.96		1.00	1.00	
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1517	3539	1565	1752	3461		3467	3385		1787	3526	
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1517	3539	1565	1752	3461		3467	3385		1787	3526	
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	22	554	535	116	273	48	299	271	100	80	267	7
RTOR Reduction (vph)	0	0	140	0	10	0	0	45	0	0	3	0
Lane Group Flow (vph)	22	554	395	116	311	0	299	326	0	80	271	0
Confl. Peds. (#/hr)	5		3	3		5	2		9	9		2
Confl. Bikes (#/hr)			1						1			
Heavy Vehicles (%)	19%	2%	2%	3%	2%	0%	1%	2%	1%	1%	2%	0%
Turn Type	Prot	NA	pm+ov	Prot	NA		Prot	NA		Prot	NA	
Protected Phases	5	2	3	1	6		3	8		7	4	
Permitted Phases			2									
Actuated Green, G (s)	3.0	40.0	52.7	10.4	47.4		12.7	19.5		7.6	15.0	
Effective Green, g (s)	3.0	40.0	52.7	10.4	47.4		12.7	19.5		7.6	15.0	
Actuated g/C Ratio	0.03	0.42	0.55	0.11	0.50		0.13	0.21		0.08	0.16	
Clearance Time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Vehicle Extension (s)	2.0	3.0	2.0	2.0	3.0		2.0	3.0		2.0	3.0	
Lane Grp Cap (vph)	47	1490	868	191	1726		463	694		142	556	
v/s Ratio Prot	0.01	0.16	c0.06	c0.07	0.09		c0.09	c0.10		0.04	0.08	
v/s Ratio Perm			0.19									
v/c Ratio	0.47	0.37	0.46	0.61	0.18		0.65	0.47		0.56	0.49	
Uniform Delay, d1	45.2	18.9	12.6	40.4	13.1		39.0	33.2		42.1	36.5	
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	2.7	0.2	0.1	3.7	0.2		2.3	0.5		3.0	0.7	
Delay (s)	47.9	19.0	12.7	44.1	13.3		41.3	33.7		45.1	37.2	
Level of Service	D	B	B	D	B		D	C		D	D	
Approach Delay (s)		16.6			21.5			37.1			39.0	
Approach LOS		B			C			D			D	

Intersection Summary			
HCM 2000 Control Delay	25.8	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.52		
Actuated Cycle Length (s)	95.0	Sum of lost time (s)	17.5
Intersection Capacity Utilization	59.8%	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 (veh/h)	22	543	524	114	268	47	293	266	98	78	262	7
Future Volume (veh/h)	22	543	524	114	268	47	293	266	98	78	262	7
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	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	1618	1870	1870	1856	1870	1900	1885	1870	1885	1885	1870	1900
Adj Flow Rate, veh/h	22	554	535	116	273	48	299	271	0	80	267	0
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	19	2	2	3	2	0	1	2	1	1	2	0
Cap, veh/h	29	864	550	145	928	161	378	670		103	489	
Arrive On Green	0.02	0.24	0.24	0.08	0.31	0.31	0.11	0.19	0.00	0.06	0.14	0.00
Sat Flow, veh/h	1541	3554	1555	1767	3025	525	3483	3647	0	1795	3647	0
Grp Volume(v), veh/h	22	554	535	116	159	162	299	271	0	80	267	0
Grp Sat Flow(s),veh/h/ln	1541	1777	1555	1767	1777	1773	1742	1777	0	1795	1777	0
Q Serve(g_s), s	1.4	13.3	23.1	6.1	6.5	6.6	8.0	6.4	0.0	4.2	6.7	0.0
Cycle Q Clear(g_c), s	1.4	13.3	23.1	6.1	6.5	6.6	8.0	6.4	0.0	4.2	6.7	0.0
Prop In Lane	1.00		1.00	1.00		0.30	1.00		0.00	1.00		0.00
Lane Grp Cap(c), veh/h	29	864	550	145	545	544	378	670		103	489	
V/C Ratio(X)	0.77	0.64	0.97	0.80	0.29	0.30	0.79	0.40		0.78	0.55	
Avail Cap(c_a), veh/h	211	864	550	260	545	544	623	1062		227	898	
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	0.78	0.78	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	46.4	32.2	30.4	42.8	25.1	25.1	41.3	33.9	0.0	44.2	38.2	0.0
Incr Delay (d2), s/veh	14.8	1.6	31.4	3.8	1.4	1.4	1.1	0.3	0.0	4.6	1.0	0.0
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(50%),veh/ln	0.6	5.8	16.4	2.8	2.9	3.0	3.4	2.7	0.0	2.0	2.9	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	61.2	33.8	61.8	46.6	26.4	26.5	42.4	34.2	0.0	48.8	39.2	0.0
LnGrp LOS	E	C	E	D	C	C	D	C		D	D	
Approach Vol, veh/h		1111			437			570	A		347	A
Approach Delay, s/veh		47.9			31.8			38.5			41.4	
Approach LOS		D			C			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.8	28.0	14.3	17.7	5.8	34.0	9.5	22.5
Change Period (Y+Rc), s	4.0	4.9	4.0	* 4.6	4.0	4.9	4.0	4.6
Max Green Setting (Gmax), s	14.0	23.1	17.0	* 24	13.0	24.1	12.0	28.4
Max Q Clear Time (g_c+I1), s	8.1	25.1	10.0	8.7	3.4	8.6	6.2	8.4
Green Ext Time (p_c), s	0.1	0.0	0.3	1.4	0.0	1.6	0.0	1.6

Intersection Summary	
HCM 6th Ctrl Delay	41.9
HCM 6th LOS	D

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.

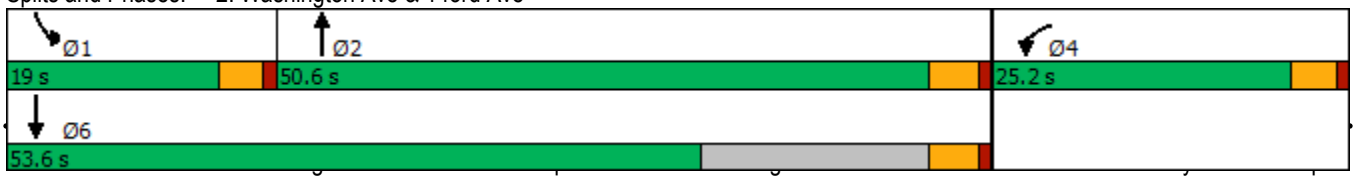
Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	153	82	592	191	115	823
Future Volume (vph)	153	82	592	191	115	823
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	90		0	100	
Storage Lanes	2	1		0	1	
Taper Length (ft)	25				25	
Lane Util. Factor	0.97	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	0.99		0.99		1.00	
Frt	0.948		0.963			
Flt Protected	0.968				0.950	
Satd. Flow (prot)	3301	0	3423	0	1719	3574
Flt Permitted	0.968				0.950	
Satd. Flow (perm)	3301	0	3423	0	1718	3574
Right Turn on Red		Yes		Yes		
Satd. Flow (RTOR)	88		64			
Link Speed (mph)	30		30			30
Link Distance (ft)	1330		895			2886
Travel Time (s)	30.2		20.3			65.6
Confl. Peds. (#/hr)		1		1	1	
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles (%)	1%	3%	1%	1%	5%	1%
Adj. Flow (vph)	165	88	637	205	124	885
Shared Lane Traffic (%)						
Lane Group Flow (vph)	253	0	842	0	124	885
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	24		24			24
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Number of Detectors	1		2		1	2
Detector Template	Left		Thru		Left	Thru
Leading Detector (ft)	20		100		20	100
Trailing Detector (ft)	0		0		0	0
Detector 1 Position(ft)	0		0		0	0
Detector 1 Size(ft)	20		6		20	6
Detector 1 Type	Cl+Ex		Cl+Ex		Cl+Ex	Cl+Ex
Detector 1 Channel						
Detector 1 Extend (s)	0.0		0.0		0.0	0.0
Detector 1 Queue (s)	0.0		0.0		0.0	0.0
Detector 1 Delay (s)	0.0		0.0		0.0	0.0
Detector 2 Position(ft)			94			94
Detector 2 Size(ft)			6			6
Detector 2 Type			Cl+Ex			Cl+Ex
Detector 2 Channel						
Detector 2 Extend (s)			0.0			0.0

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Turn Type	Prot		NA		Prot	NA
Protected Phases	4		2		1	6
Permitted Phases						
Detector Phase	4		2		1	6
Switch Phase						
Minimum Initial (s)	6.0		6.0		4.0	6.0
Minimum Split (s)	26.2		21.6		8.0	10.6
Total Split (s)	25.2		50.6		19.0	53.6
Total Split (%)	26.6%		53.4%		20.0%	56.5%
Maximum Green (s)	21.0		46.0		15.0	49.0
Yellow Time (s)	3.2		3.6		3.0	3.6
All-Red Time (s)	1.0		1.0		1.0	1.0
Lost Time Adjust (s)	0.0		0.0		0.0	0.0
Total Lost Time (s)	4.2		4.6		4.0	4.6
Lead/Lag			Lag		Lead	
Lead-Lag Optimize?			Yes		Yes	
Vehicle Extension (s)	2.0		2.0		2.0	2.0
Minimum Gap (s)	2.0		3.0		2.0	3.0
Time Before Reduce (s)	7.0		22.0		5.0	22.0
Time To Reduce (s)	9.0		30.0		6.0	30.0
Recall Mode	None		Min		None	Min
Walk Time (s)	7.0		7.0			
Flash Dont Walk (s)	15.0		10.0			
Pedestrian Calls (#/hr)	5		5			
Act Effct Green (s)	9.2		19.8		8.6	30.0
Actuated g/C Ratio	0.19		0.40		0.18	0.61
v/c Ratio	0.36		0.59		0.41	0.40
Control Delay	14.3		14.2		26.2	5.7
Queue Delay	0.0		0.0		0.0	0.0
Total Delay	14.3		14.2		26.2	5.7
LOS	B		B		C	A
Approach Delay	14.3		14.2			8.2
Approach LOS	B		B			A

Intersection Summary			
Area Type:	Other		
Cycle Length: 94.8			
Actuated Cycle Length: 48.9			
Natural Cycle: 60			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.59			
Intersection Signal Delay: 11.3		Intersection LOS: B	
Intersection Capacity Utilization 46.9%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 2: Washington Ave & 143rd Ave



Lane Group	WBL	NBT	SBL	SBT
Lane Group Flow (vph)	253	842	124	885
v/c Ratio	0.36	0.59	0.41	0.40
Control Delay	14.3	14.2	26.2	5.7
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	14.3	14.2	26.2	5.7
Queue Length 50th (ft)	19	80	29	42
Queue Length 95th (ft)	60	219	106	142
Internal Link Dist (ft)	1250	815		2806
Turn Bay Length (ft)			100	
Base Capacity (vph)	1617	3082	581	3443
Starvation Cap Reductn	0	0	0	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.16	0.27	0.21	0.26

Intersection Summary

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	153	82	592	191	115	823
Future Volume (vph)	153	82	592	191	115	823
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.2		4.6		4.0	4.6
Lane Util. Factor	0.97		0.95		1.00	0.95
Frpb, ped/bikes	0.99		0.99		1.00	1.00
Flpb, ped/bikes	1.00		1.00		1.00	1.00
Frt	0.95		0.96		1.00	1.00
Flt Protected	0.97		1.00		0.95	1.00
Satd. Flow (prot)	3303		3426		1719	3574
Flt Permitted	0.97		1.00		0.95	1.00
Satd. Flow (perm)	3303		3426		1719	3574
Peak-hour factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	165	88	637	205	124	885
RTOR Reduction (vph)	71	0	38	0	0	0
Lane Group Flow (vph)	182	0	804	0	124	885
Confl. Peds. (#/hr)		1		1	1	
Heavy Vehicles (%)	1%	3%	1%	1%	5%	1%
Turn Type	Prot		NA		Prot	NA
Protected Phases	4		2		1	6
Permitted Phases						
Actuated Green, G (s)	9.2		19.8		7.0	30.8
Effective Green, g (s)	9.2		19.8		7.0	30.8
Actuated g/C Ratio	0.19		0.41		0.14	0.63
Clearance Time (s)	4.2		4.6		4.0	4.6
Vehicle Extension (s)	2.0		2.0		2.0	2.0
Lane Grp Cap (vph)	622		1390		246	2255
v/s Ratio Prot	c0.05		c0.23		c0.07	0.25
v/s Ratio Perm						
v/c Ratio	0.29		0.58		0.50	0.39
Uniform Delay, d1	17.0		11.3		19.3	4.4
Progression Factor	1.00		1.00		1.00	1.00
Incremental Delay, d2	0.1		0.4		0.6	0.0
Delay (s)	17.1		11.6		19.9	4.5
Level of Service	B		B		B	A
Approach Delay (s)	17.1		11.6			6.4
Approach LOS	B		B			A

Intersection Summary			
HCM 2000 Control Delay	9.8	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.49		
Actuated Cycle Length (s)	48.8	Sum of lost time (s)	12.8
Intersection Capacity Utilization	46.9%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

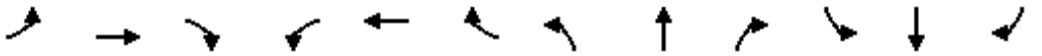
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	153	82	592	191	115	823
Future Volume (veh/h)	153	82	592	191	115	823
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1885	1856	1885	1885	1826	1885
Adj Flow Rate, veh/h	126	0	637	205	124	885
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	1	3	1	1	5	1
Cap, veh/h	227		1017	327	158	2141
Arrive On Green	0.13	0.00	0.38	0.38	0.09	0.60
Sat Flow, veh/h	1795	1572	2758	857	1739	3676
Grp Volume(v), veh/h	126	0	428	414	124	885
Grp Sat Flow(s),veh/h/ln	1795	1572	1791	1730	1739	1791
Q Serve(g_s), s	2.1	0.0	6.2	6.2	2.2	4.2
Cycle Q Clear(g_c), s	2.1	0.0	6.2	6.2	2.2	4.2
Prop In Lane	1.00	1.00		0.50	1.00	
Lane Grp Cap(c), veh/h	227		684	660	158	2141
V/C Ratio(X)	0.55		0.63	0.63	0.79	0.41
Avail Cap(c_a), veh/h	1182		2582	2494	817	5501
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	13.1	0.0	8.0	8.0	14.2	3.4
Incr Delay (d2), s/veh	0.8	0.0	0.4	0.4	3.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	0.0	1.5	1.5	0.8	0.4
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	13.9	0.0	8.4	8.4	17.5	3.5
LnGrp LOS	B		A	A	B	A
Approach Vol, veh/h	126	A	842			1009
Approach Delay, s/veh	13.9		8.4			5.2
Approach LOS	B		A			A

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	6.9	16.8		8.2		23.7
Change Period (Y+Rc), s	4.0	4.6		* 4.2		4.6
Max Green Setting (Gmax), s	15.0	46.0		* 21		49.0
Max Q Clear Time (g_c+I1), s	4.2	8.2		4.1		6.2
Green Ext Time (p_c), s	0.1	3.9		0.1		4.8

Intersection Summary	
HCM 6th Ctrl Delay	7.1
HCM 6th LOS	A

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



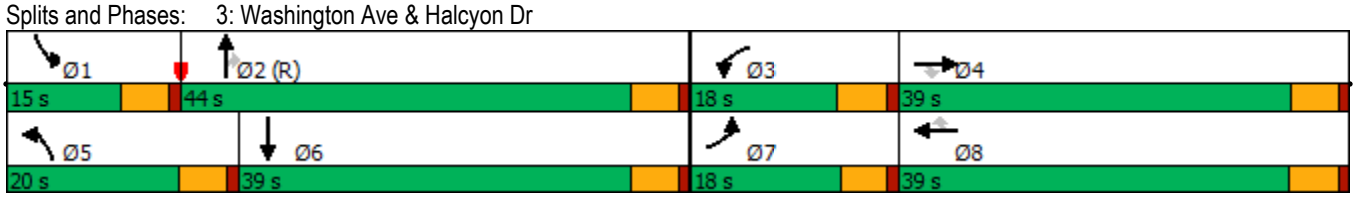
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	178	701	300	243	506	144	236	420	232	182	571	243
Future Volume (vph)	178	701	300	243	506	144	236	420	232	182	571	243
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	140		170	225		25	145		225	195		100
Storage Lanes	2		1	2		1	2		1	2		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.91	1.00
Ped Bike Factor	0.99		0.97	1.00		0.98	1.00		0.98	1.00		0.99
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3502	3574	1568	3502	3505	1568	3242	3574	1599	3467	5085	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3470	3574	1528	3487	3505	1532	3228	3574	1575	3457	5085	1560
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			242			118			242			180
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		528			456			1136			1014	
Travel Time (s)		12.0			10.4			25.8			23.0	
Confl. Peds. (#/hr)	9		9	9		9	9		3	3		9
Confl. Bikes (#/hr)			3									
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	0%	1%	3%	0%	3%	3%	8%	1%	1%	1%	2%	2%
Adj. Flow (vph)	185	730	313	253	527	150	246	438	242	190	595	253
Shared Lane Traffic (%)												
Lane Group Flow (vph)	185	730	313	253	527	150	246	438	242	190	595	253
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		24			24			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane					Yes							
Headway 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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2	1	1	2	1	1	2	1
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Leading Detector (ft)	20	100	20	20	100	20	20	100	20	20	100	20
Trailing Detector (ft)	0	0	0	0	0	0	0	0	0	0	0	0
Detector 1 Position(ft)	0	0	0	0	0	0	0	0	0	0	0	0
Detector 1 Size(ft)	20	6	20	20	6	20	20	6	20	20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												

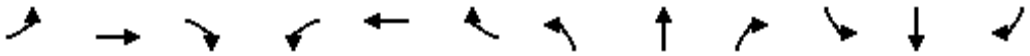
Lanes, Volumes, Timings
3: Washington Ave & Halcyon Dr 05/20/2022

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Free
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			Free
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	
Switch Phase												
Minimum Initial (s)	8.0	12.0	12.0	4.0	8.0	8.0	4.0	9.0	9.0	5.0	9.0	
Minimum Split (s)	13.1	33.1	33.1	9.4	33.4	33.4	9.1	37.1	37.1	10.1	35.1	
Total Split (s)	18.0	39.0	39.0	18.0	39.0	39.0	20.0	44.0	44.0	15.0	39.0	
Total Split (%)	15.5%	33.6%	33.6%	15.5%	33.6%	33.6%	17.2%	37.9%	37.9%	12.9%	33.6%	
Maximum Green (s)	12.9	33.9	33.9	12.6	33.6	33.6	14.9	38.9	38.9	9.9	33.9	
Yellow Time (s)	4.1	4.1	4.1	4.4	4.4	4.4	4.1	4.1	4.1	4.1	4.1	
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Minimum Gap (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Time Before Reduce (s)	4.0	7.0	7.0	3.0	6.0	6.0	4.0	5.0	5.0	5.0	7.0	
Time To Reduce (s)	5.0	9.0	9.0	4.0	8.0	8.0	5.0	7.0	7.0	7.0	10.0	
Recall Mode	None	None	None	None	None	None	None	C-Min	C-Min	None	Min	
Walk Time (s)		6.0	6.0		6.0	6.0		6.0	6.0		6.0	
Flash Dont Walk (s)		22.0	22.0		22.0	22.0		26.0	26.0		24.0	
Pedestrian Calls (#/hr)		5	5		5	5		5	5		5	
Act Effct Green (s)	12.4	30.8	30.8	14.2	32.6	32.6	14.2	38.9	38.9	11.4	36.2	116.0
Actuated g/C Ratio	0.11	0.27	0.27	0.12	0.28	0.28	0.12	0.34	0.34	0.10	0.31	1.00
v/c Ratio	0.50	0.77	0.54	0.59	0.54	0.29	0.62	0.37	0.35	0.56	0.38	0.16
Control Delay	53.1	45.1	12.2	53.8	37.1	10.2	55.5	31.6	5.4	56.6	33.4	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	53.1	45.1	12.2	53.8	37.1	10.2	55.5	31.6	5.4	56.6	33.4	0.2
LOS	D	D	B	D	D	B	E	C	A	E	C	A
Approach Delay		37.9			37.3			31.1			29.6	
Approach LOS		D			D			C			C	

Intersection Summary			
Area Type:	Other		
Cycle Length: 116			
Actuated Cycle Length: 116			
Offset: 98 (84%), Referenced to phase 2:NBT, Start of Green			
Natural Cycle: 95			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.77			
Intersection Signal Delay: 34.2		Intersection LOS: C	
Intersection Capacity Utilization 76.4%		ICU Level of Service D	
Analysis Period (min) 15			

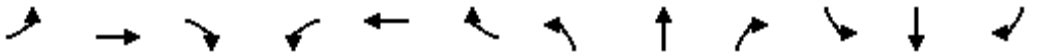
Splits and Phases: 3: Washington Ave & Halcyon Dr





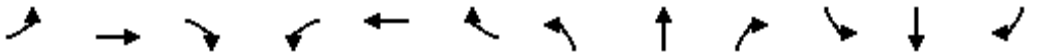
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	185	730	313	253	527	150	246	438	242	190	595	253
v/c Ratio	0.50	0.77	0.54	0.59	0.54	0.29	0.62	0.37	0.35	0.56	0.38	0.16
Control Delay	53.1	45.1	12.2	53.8	37.1	10.2	55.5	31.6	5.4	56.6	33.4	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	53.1	45.1	12.2	53.8	37.1	10.2	55.5	31.6	5.4	56.6	33.4	0.2
Queue Length 50th (ft)	68	262	40	93	172	17	90	134	0	70	130	0
Queue Length 95th (ft)	102	325	123	134	224	67	134	184	59	110	175	0
Internal Link Dist (ft)		448			376			1056			934	
Turn Bay Length (ft)	140		170	225		25	145		225	195		100
Base Capacity (vph)	409	1050	619	438	1047	540	425	1291	723	344	1672	1560
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.45	0.70	0.51	0.58	0.50	0.28	0.58	0.34	0.33	0.55	0.36	0.16

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	178	701	300	243	506	144	236	420	232	182	571	243
Future Volume (vph)	178	701	300	243	506	144	236	420	232	182	571	243
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	4.0
Lane Util. Factor	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.91	1.00
Frpb, ped/bikes	1.00	1.00	0.97	1.00	1.00	0.98	1.00	1.00	0.98	1.00	1.00	0.99
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3502	3574	1528	3502	3505	1532	3242	3574	1575	3467	5085	1560
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3502	3574	1528	3502	3505	1532	3242	3574	1575	3467	5085	1560
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	185	730	312	253	527	150	246	438	242	190	595	253
RTOR Reduction (vph)	0	0	178	0	0	85	0	0	161	0	0	0
Lane Group Flow (vph)	185	730	135	253	527	65	246	438	81	190	595	253
Confl. Peds. (#/hr)	9		9	9		9	9		3	3		9
Confl. Bikes (#/hr)			3									
Heavy Vehicles (%)	0%	1%	3%	0%	3%	3%	8%	1%	1%	1%	2%	2%
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Free
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			Free
Actuated Green, G (s)	12.4	30.8	30.8	14.2	32.6	32.6	14.2	38.9	38.9	11.4	36.1	116.0
Effective Green, g (s)	12.4	30.8	30.8	14.2	32.6	32.6	14.2	38.9	38.9	11.4	36.1	116.0
Actuated g/C Ratio	0.11	0.27	0.27	0.12	0.28	0.28	0.12	0.34	0.34	0.10	0.31	1.00
Clearance Time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	
Vehicle Extension (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Lane Grp Cap (vph)	374	948	405	428	985	430	396	1198	528	340	1582	1560
v/s Ratio Prot	0.05	c0.20		c0.07	0.15		c0.08	c0.12		0.05	0.12	
v/s Ratio Perm			0.09			0.04			0.05			c0.16
v/c Ratio	0.49	0.77	0.33	0.59	0.54	0.15	0.62	0.37	0.15	0.56	0.38	0.16
Uniform Delay, d1	48.8	39.3	34.3	48.2	35.3	31.3	48.3	29.2	27.0	49.9	31.2	0.0
Progression 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
Incremental Delay, d2	1.4	4.1	0.7	2.6	0.7	0.2	3.4	0.9	0.6	2.5	0.2	0.2
Delay (s)	50.3	43.5	35.0	50.7	36.0	31.5	51.8	30.1	27.6	52.4	31.4	0.2
Level of Service	D	D	D	D	D	C	D	C	C	D	C	A
Approach Delay (s)		42.3			39.3			35.2			27.6	
Approach LOS		D			D			D			C	

Intersection Summary			
HCM 2000 Control Delay	36.3	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.58		
Actuated Cycle Length (s)	116.0	Sum of lost time (s)	20.7
Intersection Capacity Utilization	76.4%	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)	178	701	300	243	506	144	236	420	232	182	571	243
Future Volume (veh/h)	178	701	300	243	506	144	236	420	232	182	571	243
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.99	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	1900	1885	1856	1900	1856	1856	1781	1885	1885	1885	1870	1870
Adj Flow Rate, veh/h	185	730	312	253	527	150	246	438	0	190	595	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	1	3	0	3	3	8	1	1	1	2	2
Cap, veh/h	252	914	391	317	974	430	311	1438		250	1935	
Arrive On Green	0.07	0.26	0.26	0.09	0.28	0.28	0.09	0.40	0.00	0.07	0.38	0.00
Sat Flow, veh/h	3510	3582	1533	3510	3526	1557	3291	3582	1598	3483	5106	1585
Grp Volume(v), veh/h	185	730	312	253	527	150	246	438	0	190	595	0
Grp Sat Flow(s),veh/h/ln	1755	1791	1533	1755	1763	1557	1646	1791	1598	1742	1702	1585
Q Serve(g_s), s	6.0	22.1	22.1	8.2	14.8	8.9	8.5	9.7	0.0	6.2	9.5	0.0
Cycle Q Clear(g_c), s	6.0	22.1	22.1	8.2	14.8	8.9	8.5	9.7	0.0	6.2	9.5	0.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	252	914	391	317	974	430	311	1438		250	1935	
V/C Ratio(X)	0.73	0.80	0.80	0.80	0.54	0.35	0.79	0.30		0.76	0.31	
Avail Cap(c_a), veh/h	390	1047	448	381	1021	451	423	1438		297	1935	
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	0.00	0.63	0.63	0.00
Uniform Delay (d), s/veh	52.8	40.4	40.4	51.7	35.7	33.6	51.4	23.7	0.0	52.8	25.3	0.0
Incr Delay (d2), s/veh	5.8	4.3	9.5	10.7	0.7	0.7	8.4	0.5	0.0	6.7	0.1	0.0
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(50%),veh/ln	2.8	10.2	9.3	4.1	6.4	3.5	3.9	4.2	0.0	2.9	3.9	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	58.6	44.8	49.9	62.4	36.4	34.3	59.8	24.2	0.0	59.6	25.4	0.0
LnGrp LOS	E	D	D	E	D	C	E	C		E	C	
Approach Vol, veh/h		1227			930			684	A		785	A
Approach Delay, s/veh		48.2			43.1			37.0			33.7	
Approach LOS		D			D			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.4	51.7	15.9	35.0	16.1	49.1	13.4	37.5
Change Period (Y+Rc), s	5.1	5.1	5.4	* 5.4	5.1	5.1	5.1	5.4
Max Green Setting (Gmax), s	9.9	38.9	12.6	* 34	14.9	33.9	12.9	33.6
Max Q Clear Time (g_c+I1), s	8.2	11.7	10.2	24.1	10.5	11.5	8.0	16.8
Green Ext Time (p_c), s	0.1	4.3	0.3	5.5	0.5	5.7	0.4	5.2

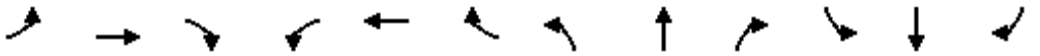
Intersection Summary	
HCM 6th Ctrl Delay	41.6
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Appendix D - Existing Plus Project Traffic Conditions Synchro Report



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	9	507	316	94	671	99	573	330	112	66	215	17
Future Volume (vph)	9	507	316	94	671	99	573	330	112	66	215	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	140		150	90		0	120		0	80		0
Storage Lanes	1		1	1		0	2		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95	0.95	0.97	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor	1.00		0.99	1.00	1.00		1.00	1.00		1.00	1.00	
Frt			0.850		0.981			0.962			0.989	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1626	3539	1568	1703	3455	0	3400	3334	0	1687	3502	0
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1619	3539	1545	1701	3455	0	3396	3334	0	1685	3502	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			331		16			50			8	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		977			1135			2249			891	
Travel Time (s)		22.2			25.8			51.1			20.3	
Confl. Peds. (#/hr)	16		2	2		16	1		3	3		1
Confl. Bikes (#/hr)			2						2			
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Heavy Vehicles (%)	11%	2%	3%	6%	2%	3%	3%	4%	3%	7%	2%	0%
Adj. Flow (vph)	11	604	376	112	799	118	682	393	133	79	256	20
Shared Lane Traffic (%)												
Lane Group Flow (vph)	11	604	376	112	917	0	682	526	0	79	276	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway 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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2		1	2		1	2	
Detector Template	Left	Thru	Right	Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100	20	20	100		20	100		20	100	
Trailing Detector (ft)	0	0	0	0	0		0	0		0	0	
Detector 1 Position(ft)	0	0	0	0	0		0	0		0	0	
Detector 1 Size(ft)	20	6	20	20	6		20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												

Lanes, Volumes, Timings
1: Washington Ave & San Leandro Blvd

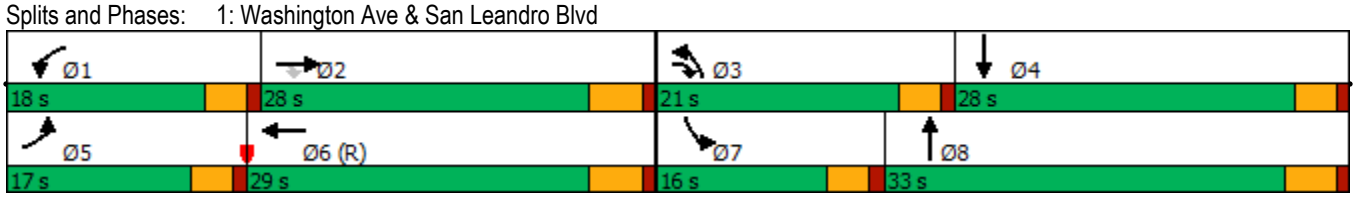
05/20/2022

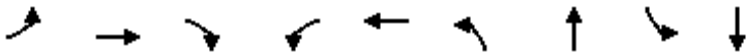
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Prot	NA	pm+ov	Prot	NA		Prot	NA		Prot	NA	
Protected Phases	5	2	3	1	6		3	8		7	4	
Permitted Phases			2									
Detector Phase	5	2	3	1	6		3	8		7	4	
Switch Phase												
Minimum Initial (s)	4.0	4.0	4.0	4.0	4.0		4.0	4.0		4.0	4.0	
Minimum Split (s)	8.0	34.9	8.0	8.0	32.9		8.0	33.6		8.0	34.0	
Total Split (s)	17.0	28.0	21.0	18.0	29.0		21.0	33.0		16.0	28.0	
Total Split (%)	17.9%	29.5%	22.1%	18.9%	30.5%		22.1%	34.7%		16.8%	29.5%	
Maximum Green (s)	13.0	23.1	17.0	14.0	24.1		17.0	28.4		12.0	24.0	
Yellow Time (s)	3.0	3.9	3.0	3.0	3.9		3.0	3.6		3.0	3.0	
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Lead/Lag	Lead	Lag	Lead	Lead	Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes		Yes	Yes		Yes	Yes	
Vehicle Extension (s)	2.0	3.0	2.0	2.0	3.0		2.0	3.0		2.0	3.0	
Minimum Gap (s)	2.0	2.0	2.0	2.0	2.0		2.0	2.0		2.0	2.0	
Time Before Reduce (s)	3.0	13.0	7.0	5.0	12.0		7.0	9.0		6.0	9.0	
Time To Reduce (s)	4.0	15.0	8.0	6.0	13.0		8.0	10.0		7.0	11.0	
Recall Mode	None	Min	None	None	C-Min		None	None		None	None	
Walk Time (s)		7.0			7.0			7.0			7.0	
Flash Dont Walk (s)		23.0			21.0			22.0			23.0	
Pedestrian Calls (#/hr)		5			5			5			5	
Act Effct Green (s)	5.3	36.2	54.1	10.3	48.4		17.0	24.1		8.7	14.6	
Actuated g/C Ratio	0.06	0.38	0.57	0.11	0.51		0.18	0.25		0.09	0.15	
v/c Ratio	0.12	0.45	0.37	0.61	0.52		1.12	0.60		0.52	0.51	
Control Delay	45.1	25.2	3.4	53.6	18.7		112.1	31.4		52.3	38.1	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	45.1	25.2	3.4	53.6	18.7		112.1	31.4		52.3	38.1	
LOS	D	C	A	D	B		F	C		D	D	
Approach Delay		17.2			22.5			76.9			41.3	
Approach LOS		B			C			E			D	

Intersection Summary

Area Type:	Other		
Cycle Length: 95			
Actuated Cycle Length: 95			
Offset: 39 (41%), Referenced to phase 6:WBT, Start of Green			
Natural Cycle: 95			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 1.12			
Intersection Signal Delay: 41.2		Intersection LOS: D	
Intersection Capacity Utilization 64.2%		ICU Level of Service C	
Analysis Period (min) 15			

Splits and Phases: 1: Washington Ave & San Leandro Blvd



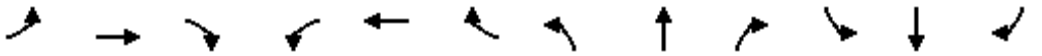


Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	11	604	376	112	917	682	526	79	276
v/c Ratio	0.12	0.45	0.37	0.61	0.52	1.12	0.60	0.52	0.51
Control Delay	45.1	25.2	3.4	53.6	18.7	112.1	31.4	52.3	38.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	45.1	25.2	3.4	53.6	18.7	112.1	31.4	52.3	38.1
Queue Length 50th (ft)	6	136	9	65	163	~246	141	46	81
Queue Length 95th (ft)	22	216	50	108	307	#320	159	83	96
Internal Link Dist (ft)		897			1055		2169		811
Turn Bay Length (ft)	140		150	90		120		80	
Base Capacity (vph)	222	1348	1026	250	1768	608	1039	213	890
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.05	0.45	0.37	0.45	0.52	1.12	0.51	0.37	0.31

Intersection Summary

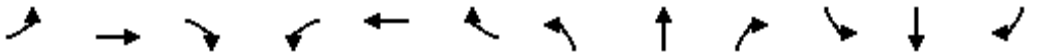
~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	9	507	316	94	671	99	573	330	112	66	215	17
Future Volume (vph)	9	507	316	94	671	99	573	330	112	66	215	17
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95		0.97	0.95		1.00	0.95	
Frpb, ped/bikes	1.00	1.00	0.99	1.00	1.00		1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00	
Frt	1.00	1.00	0.85	1.00	0.98		1.00	0.96		1.00	0.99	
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1626	3539	1552	1703	3454		3400	3334		1687	3502	
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1626	3539	1552	1703	3454		3400	3334		1687	3502	
Peak-hour factor, PHF	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Adj. Flow (vph)	11	604	376	112	799	118	682	393	133	79	256	20
RTOR Reduction (vph)	0	0	148	0	9	0	0	37	0	0	7	0
Lane Group Flow (vph)	11	604	228	112	908	0	682	489	0	79	269	0
Confl. Peds. (#/hr)	16		2	2		16	1		3	3		1
Confl. Bikes (#/hr)			2						2			
Heavy Vehicles (%)	11%	2%	3%	6%	2%	3%	3%	4%	3%	7%	2%	0%
Turn Type	Prot	NA	pm+ov	Prot	NA		Prot	NA		Prot	NA	
Protected Phases	5	2	3	1	6		3	8		7	4	
Permitted Phases			2									
Actuated Green, G (s)	1.3	35.4	52.4	10.3	44.4		17.0	24.1		7.7	15.4	
Effective Green, g (s)	1.3	35.4	52.4	10.3	44.4		17.0	24.1		7.7	15.4	
Actuated g/C Ratio	0.01	0.37	0.55	0.11	0.47		0.18	0.25		0.08	0.16	
Clearance Time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Vehicle Extension (s)	2.0	3.0	2.0	2.0	3.0		2.0	3.0		2.0	3.0	
Lane Grp Cap (vph)	22	1318	856	184	1614		608	845		136	567	
v/s Ratio Prot	0.01	0.17	0.05	c0.07	c0.26		c0.20	c0.15		0.05	0.08	
v/s Ratio Perm			0.10									
v/c Ratio	0.50	0.46	0.27	0.61	0.56		1.12	0.58		0.58	0.47	
Uniform Delay, d1	46.5	22.5	11.2	40.4	18.3		39.0	31.0		42.1	36.1	
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	6.4	0.3	0.1	3.9	1.4		74.8	1.0		4.0	0.6	
Delay (s)	52.9	22.8	11.3	44.3	19.7		113.8	32.0		46.1	36.8	
Level of Service	D	C	B	D	B		F	C		D	D	
Approach Delay (s)		18.8			22.4			78.1			38.8	
Approach LOS		B			C			E			D	

Intersection Summary			
HCM 2000 Control Delay	41.8	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.73		
Actuated Cycle Length (s)	95.0	Sum of lost time (s)	17.5
Intersection Capacity Utilization	64.2%	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 (veh/h)	9	507	316	94	671	99	573	330	112	66	215	17
Future Volume (veh/h)	9	507	316	94	671	99	573	330	112	66	215	17
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	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	1737	1870	1856	1811	1870	1856	1856	1841	1856	1796	1870	1900
Adj Flow Rate, veh/h	11	604	376	112	799	118	682	393	0	79	256	0
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Percent Heavy Veh, %	11	2	3	6	2	3	3	4	3	7	2	0
Cap, veh/h	18	833	637	140	945	139	613	825		100	411	
Arrive On Green	0.01	0.23	0.23	0.08	0.30	0.30	0.18	0.24	0.00	0.06	0.12	0.00
Sat Flow, veh/h	1654	3554	1519	1725	3099	458	3428	3589	0	1711	3647	0
Grp Volume(v), veh/h	11	604	376	112	458	459	682	393	0	79	256	0
Grp Sat Flow(s),veh/h/ln	1654	1777	1519	1725	1777	1779	1714	1749	0	1711	1777	0
Q Serve(g_s), s	0.6	14.9	18.3	6.1	22.9	22.9	17.0	9.2	0.0	4.3	6.5	0.0
Cycle Q Clear(g_c), s	0.6	14.9	18.3	6.1	22.9	22.9	17.0	9.2	0.0	4.3	6.5	0.0
Prop In Lane	1.00		1.00	1.00		0.26	1.00		0.00	1.00		0.00
Lane Grp Cap(c), veh/h	18	833	637	140	542	542	613	825		100	411	
V/C Ratio(X)	0.63	0.73	0.59	0.80	0.85	0.85	1.11	0.48		0.79	0.62	
Avail Cap(c_a), veh/h	226	864	651	254	542	542	613	1046		216	898	
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	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	46.8	33.5	21.7	42.9	30.9	30.9	39.0	31.3	0.0	44.1	40.0	0.0
Incr Delay (d2), s/veh	12.8	2.9	1.4	4.0	15.0	15.0	70.9	0.4	0.0	5.1	1.6	0.0
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(50%),veh/ln	0.3	6.6	6.5	2.7	11.8	11.8	13.1	3.9	0.0	2.0	2.9	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	59.7	36.5	23.1	46.9	45.9	45.9	109.9	31.7	0.0	49.2	41.6	0.0
LnGrp LOS	E	D	C	D	D	D	F	C		D	D	
Approach Vol, veh/h		991			1029			1075	A		335	A
Approach Delay, s/veh		31.7			46.0			81.3			43.4	
Approach LOS		C			D			F			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.7	27.2	21.0	15.6	5.0	33.9	9.6	27.0
Change Period (Y+Rc), s	4.0	4.9	4.0	* 4.6	4.0	4.9	4.0	4.6
Max Green Setting (Gmax), s	14.0	23.1	17.0	* 24	13.0	24.1	12.0	28.4
Max Q Clear Time (g_c+I1), s	8.1	20.3	19.0	8.5	2.6	24.9	6.3	11.2
Green Ext Time (p_c), s	0.1	1.5	0.0	1.4	0.0	0.0	0.0	2.4

Intersection Summary	
HCM 6th Ctrl Delay	52.7
HCM 6th LOS	D

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.

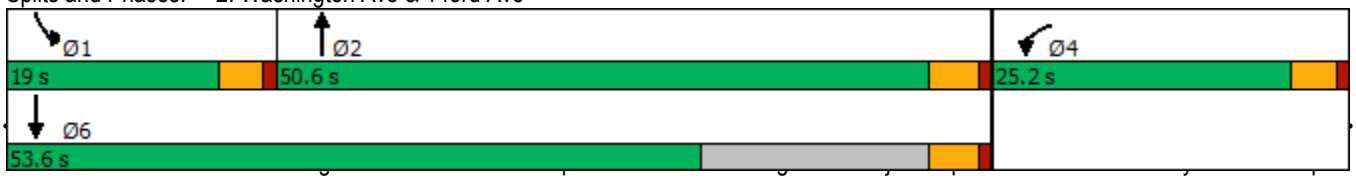
Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	270	180	802	248	61	453
Future Volume (vph)	270	180	802	248	61	453
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	90		0	100	
Storage Lanes	2	1		0	1	
Taper Length (ft)	25				25	
Lane Util. Factor	0.97	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	0.99		0.99		1.00	
Frt	0.940		0.965			
Flt Protected	0.971				0.950	
Satd. Flow (prot)	3277	0	3364	0	1719	3406
Flt Permitted	0.971				0.950	
Satd. Flow (perm)	3277	0	3364	0	1718	3406
Right Turn on Red		Yes		Yes		
Satd. Flow (RTOR)	165		60			
Link Speed (mph)	30		30			30
Link Distance (ft)	1330		895			516
Travel Time (s)	30.2		20.3			11.7
Confl. Peds. (#/hr)		5		1	1	
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82
Heavy Vehicles (%)	1%	2%	3%	3%	5%	6%
Adj. Flow (vph)	329	220	978	302	74	552
Shared Lane Traffic (%)						
Lane Group Flow (vph)	549	0	1280	0	74	552
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	24		12			12
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Number of Detectors	1		2		1	2
Detector Template	Left		Thru		Left	Thru
Leading Detector (ft)	20		100		20	100
Trailing Detector (ft)	0		0		0	0
Detector 1 Position(ft)	0		0		0	0
Detector 1 Size(ft)	20		6		20	6
Detector 1 Type	Cl+Ex		Cl+Ex		Cl+Ex	Cl+Ex
Detector 1 Channel						
Detector 1 Extend (s)	0.0		0.0		0.0	0.0
Detector 1 Queue (s)	0.0		0.0		0.0	0.0
Detector 1 Delay (s)	0.0		0.0		0.0	0.0
Detector 2 Position(ft)			94			94
Detector 2 Size(ft)			6			6
Detector 2 Type			Cl+Ex			Cl+Ex
Detector 2 Channel						
Detector 2 Extend (s)			0.0			0.0

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Turn Type	Prot		NA		Prot	NA
Protected Phases	4		2		1	6
Permitted Phases						
Detector Phase	4		2		1	6
Switch Phase						
Minimum Initial (s)	6.0		6.0		4.0	6.0
Minimum Split (s)	26.2		21.6		8.0	10.6
Total Split (s)	25.2		50.6		19.0	53.6
Total Split (%)	26.6%		53.4%		20.0%	56.5%
Maximum Green (s)	21.0		46.0		15.0	49.0
Yellow Time (s)	3.2		3.6		3.0	3.6
All-Red Time (s)	1.0		1.0		1.0	1.0
Lost Time Adjust (s)	0.0		0.0		0.0	0.0
Total Lost Time (s)	4.2		4.6		4.0	4.6
Lead/Lag			Lag		Lead	
Lead-Lag Optimize?			Yes		Yes	
Vehicle Extension (s)	2.0		2.0		2.0	2.0
Minimum Gap (s)	2.0		3.0		2.0	3.0
Time Before Reduce (s)	7.0		22.0		5.0	22.0
Time To Reduce (s)	9.0		30.0		6.0	30.0
Recall Mode	None		Min		None	Min
Walk Time (s)	7.0		7.0			
Flash Dont Walk (s)	15.0		10.0			
Pedestrian Calls (#/hr)	5		5			
Act Effct Green (s)	14.0		32.9		8.1	42.0
Actuated g/C Ratio	0.21		0.50		0.12	0.63
v/c Ratio	0.67		0.75		0.35	0.26
Control Delay	23.0		17.0		38.0	5.3
Queue Delay	0.0		0.0		0.0	0.0
Total Delay	23.0		17.0		38.0	5.3
LOS	C		B		D	A
Approach Delay	23.0		17.0			9.2
Approach LOS	C		B			A

Intersection Summary			
Area Type:	Other		
Cycle Length: 94.8			
Actuated Cycle Length: 66.2			
Natural Cycle: 65			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.75			
Intersection Signal Delay: 16.4		Intersection LOS: B	
Intersection Capacity Utilization 58.5%		ICU Level of Service B	
Analysis Period (min) 15			

Splits and Phases: 2: Washington Ave & 143rd Ave



Lane Group	WBL	NBT	SBL	SBT
Lane Group Flow (vph)	549	1280	74	552
v/c Ratio	0.67	0.75	0.35	0.26
Control Delay	23.0	17.0	38.0	5.3
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	23.0	17.0	38.0	5.3
Queue Length 50th (ft)	75	201	29	40
Queue Length 95th (ft)	135	320	75	72
Internal Link Dist (ft)	1250	815		436
Turn Bay Length (ft)			100	
Base Capacity (vph)	1309	2408	448	3026
Starvation Cap Reductn	0	0	0	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.42	0.53	0.17	0.18

Intersection Summary

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	270	180	802	248	61	453
Future Volume (vph)	270	180	802	248	61	453
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.2		4.6		4.0	4.6
Lane Util. Factor	0.97		0.95		1.00	0.95
Frpb, ped/bikes	0.99		0.99		1.00	1.00
Flpb, ped/bikes	1.00		1.00		1.00	1.00
Frt	0.94		0.96		1.00	1.00
Flt Protected	0.97		1.00		0.95	1.00
Satd. Flow (prot)	3281		3363		1719	3406
Flt Permitted	0.97		1.00		0.95	1.00
Satd. Flow (perm)	3281		3363		1719	3406
Peak-hour factor, PHF	0.82	0.82	0.82	0.82	0.82	0.82
Adj. Flow (vph)	329	220	978	302	74	552
RTOR Reduction (vph)	130	0	30	0	0	0
Lane Group Flow (vph)	419	0	1250	0	74	552
Confl. Peds. (#/hr)		5		1	1	
Heavy Vehicles (%)	1%	2%	3%	3%	5%	6%
Turn Type	Prot		NA		Prot	NA
Protected Phases	4		2		1	6
Permitted Phases						
Actuated Green, G (s)	14.0		32.9		6.2	43.1
Effective Green, g (s)	14.0		32.9		6.2	43.1
Actuated g/C Ratio	0.21		0.50		0.09	0.65
Clearance Time (s)	4.2		4.6		4.0	4.6
Vehicle Extension (s)	2.0		2.0		2.0	2.0
Lane Grp Cap (vph)	697		1678		161	2227
v/s Ratio Prot	c0.13		c0.37		c0.04	0.16
v/s Ratio Perm						
v/c Ratio	0.60		0.74		0.46	0.25
Uniform Delay, d1	23.4		13.2		28.3	4.7
Progression Factor	1.00		1.00		1.00	1.00
Incremental Delay, d2	1.0		1.6		0.8	0.0
Delay (s)	24.4		14.8		29.0	4.7
Level of Service	C		B		C	A
Approach Delay (s)	24.4		14.8			7.6
Approach LOS	C		B			A

Intersection Summary			
HCM 2000 Control Delay	15.1	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.67		
Actuated Cycle Length (s)	65.9	Sum of lost time (s)	12.8
Intersection Capacity Utilization	58.5%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

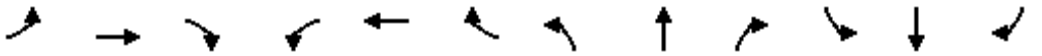
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	270	180	802	248	61	453
Future Volume (veh/h)	270	180	802	248	61	453
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1885	1870	1856	1856	1826	1811
Adj Flow Rate, veh/h	274	0	978	302	74	552
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82
Percent Heavy Veh, %	1	2	3	3	5	6
Cap, veh/h	340		1297	399	92	2153
Arrive On Green	0.19	0.00	0.49	0.49	0.05	0.63
Sat Flow, veh/h	1795	1585	2748	816	1739	3532
Grp Volume(v), veh/h	274	0	648	632	74	552
Grp Sat Flow(s),veh/h/ln	1795	1585	1763	1708	1739	1721
Q Serve(g_s), s	7.0	0.0	14.1	14.3	2.0	3.4
Cycle Q Clear(g_c), s	7.0	0.0	14.1	14.3	2.0	3.4
Prop In Lane	1.00	1.00		0.48	1.00	
Lane Grp Cap(c), veh/h	340		861	835	92	2153
V/C Ratio(X)	0.81		0.75	0.76	0.80	0.26
Avail Cap(c_a), veh/h	791		1702	1649	547	3539
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	18.5	0.0	9.8	9.9	22.3	4.0
Incr Delay (d2), s/veh	1.7	0.0	0.5	0.5	5.9	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.7	0.0	4.1	4.0	0.9	0.7
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	20.2	0.0	10.4	10.4	28.2	4.0
LnGrp LOS	C		B	B	C	A
Approach Vol, veh/h	274	A	1280			626
Approach Delay, s/veh	20.2		10.4			6.9
Approach LOS	C		B			A

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	6.5	27.9		13.2		34.4
Change Period (Y+Rc), s	4.0	4.6		* 4.2		4.6
Max Green Setting (Gmax), s	15.0	46.0		* 21		49.0
Max Q Clear Time (g_c+I1), s	4.0	16.3		9.0		5.4
Green Ext Time (p_c), s	0.1	7.0		0.3		2.7

Intersection Summary	
HCM 6th Ctrl Delay	10.6
HCM 6th LOS	B

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



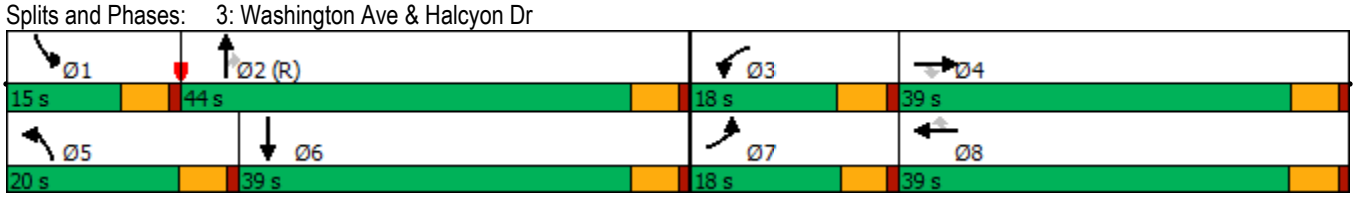
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	201	737	151	195	356	137	111	515	132	440	789	201
Future Volume (vph)	201	737	151	195	356	137	111	515	132	440	789	201
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	140		170	225		25	145		225	195		100
Storage Lanes	2		1	2		1	2		1	2		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.91	1.00
Ped Bike Factor	0.99		0.97	1.00		0.97	1.00		0.97	0.98		0.99
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3335	3539	1524	3467	3471	1417	3367	3438	1583	3273	4988	1553
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3303	3539	1482	3454	3471	1381	3365	3438	1529	3216	4988	1533
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			133			118			145			169
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		465			456			1136			1014	
Travel Time (s)		10.6			10.4			25.8			23.0	
Confl. Peds. (#/hr)	8		9	9		8	2		21	21		2
Confl. Bikes (#/hr)			6			5						
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles (%)	5%	2%	6%	1%	4%	14%	4%	5%	2%	7%	4%	4%
Adj. Flow (vph)	221	810	166	214	391	151	122	566	145	484	867	221
Shared Lane Traffic (%)												
Lane Group Flow (vph)	221	810	166	214	391	151	122	566	145	484	867	221
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		24			24			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane					Yes							
Headway 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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2	1	1	2	1	1	2	1
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Leading Detector (ft)	20	100	20	20	100	20	20	100	20	20	100	20
Trailing Detector (ft)	0	0	0	0	0	0	0	0	0	0	0	0
Detector 1 Position(ft)	0	0	0	0	0	0	0	0	0	0	0	0
Detector 1 Size(ft)	20	6	20	20	6	20	20	6	20	20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												

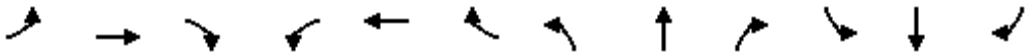
Lanes, Volumes, Timings
3: Washington Ave & Halcyon Dr 05/20/2022

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Free
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			Free
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	
Switch Phase												
Minimum Initial (s)	8.0	12.0	12.0	4.0	8.0	8.0	4.0	9.0	9.0	5.0	9.0	
Minimum Split (s)	13.1	33.1	33.1	9.4	33.4	33.4	9.1	37.1	37.1	10.1	35.1	
Total Split (s)	18.0	39.0	39.0	18.0	39.0	39.0	20.0	44.0	44.0	15.0	39.0	
Total Split (%)	15.5%	33.6%	33.6%	15.5%	33.6%	33.6%	17.2%	37.9%	37.9%	12.9%	33.6%	
Maximum Green (s)	12.9	33.9	33.9	12.6	33.6	33.6	14.9	38.9	38.9	9.9	33.9	
Yellow Time (s)	4.1	4.1	4.1	4.4	4.4	4.4	4.1	4.1	4.1	4.1	4.1	
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Minimum Gap (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Time Before Reduce (s)	4.0	7.0	7.0	3.0	6.0	6.0	4.0	5.0	5.0	5.0	7.0	
Time To Reduce (s)	5.0	9.0	9.0	4.0	8.0	8.0	5.0	7.0	7.0	7.0	10.0	
Recall Mode	None	None	None	None	None	None	None	C-Min	C-Min	None	Min	
Walk Time (s)		6.0	6.0		6.0	6.0		6.0	6.0		6.0	
Flash Dont Walk (s)		22.0	22.0		22.0	22.0		26.0	26.0		24.0	
Pedestrian Calls (#/hr)		5	5		5	5		5	5		5	
Act Effct Green (s)	13.2	32.6	32.6	12.8	32.2	32.2	10.5	30.2	30.2	19.7	39.4	116.0
Actuated g/C Ratio	0.11	0.28	0.28	0.11	0.28	0.28	0.09	0.26	0.26	0.17	0.34	1.00
v/c Ratio	0.58	0.81	0.32	0.56	0.41	0.32	0.40	0.63	0.29	0.87	0.51	0.14
Control Delay	55.0	46.1	10.1	54.6	35.1	11.0	53.3	40.8	6.2	65.9	33.1	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	55.0	46.1	10.1	54.6	35.1	11.0	53.3	40.8	6.2	65.9	33.1	0.2
LOS	E	D	B	D	D	B	D	D	A	E	C	A
Approach Delay		42.7			35.8			36.6			38.6	
Approach LOS		D			D			D			D	

Intersection Summary			
Area Type:	Other		
Cycle Length: 116			
Actuated Cycle Length: 116			
Offset: 98 (84%), Referenced to phase 2:NBT, Start of Green			
Natural Cycle: 105			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.87			
Intersection Signal Delay: 38.9		Intersection LOS: D	
Intersection Capacity Utilization 83.2%		ICU Level of Service E	
Analysis Period (min) 15			

Splits and Phases: 3: Washington Ave & Halcyon Dr



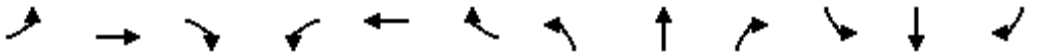


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	221	810	166	214	391	151	122	566	145	484	867	221
v/c Ratio	0.58	0.81	0.32	0.56	0.41	0.32	0.40	0.63	0.29	0.87	0.51	0.14
Control Delay	55.0	46.1	10.1	54.6	35.1	11.0	53.3	40.8	6.2	65.9	33.1	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	55.0	46.1	10.1	54.6	35.1	11.0	53.3	40.8	6.2	65.9	33.1	0.2
Queue Length 50th (ft)	81	290	18	78	122	18	44	196	0	~192	195	0
Queue Length 95th (ft)	121	368	72	118	168	71	74	235	45	#382	247	0
Internal Link Dist (ft)		385			376			1056			934	
Turn Bay Length (ft)	140		170	225		25	145		225	195		100
Base Capacity (vph)	397	1055	535	401	1022	490	432	1152	609	555	1707	1533
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.56	0.77	0.31	0.53	0.38	0.31	0.28	0.49	0.24	0.87	0.51	0.14

Intersection Summary

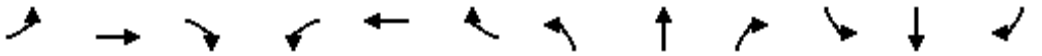
~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	201	737	151	195	356	137	111	515	132	440	789	201
Future Volume (vph)	201	737	151	195	356	137	111	515	132	440	789	201
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	4.0
Lane Util. Factor	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.91	1.00
Frpb, ped/bikes	1.00	1.00	0.97	1.00	1.00	0.97	1.00	1.00	0.97	1.00	1.00	0.99
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3335	3539	1482	3467	3471	1380	3367	3438	1529	3273	4988	1533
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3335	3539	1482	3467	3471	1380	3367	3438	1529	3273	4988	1533
Peak-hour factor, PHF	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Adj. Flow (vph)	221	810	166	214	391	151	122	566	145	484	867	221
RTOR Reduction (vph)	0	0	96	0	0	85	0	0	107	0	0	0
Lane Group Flow (vph)	221	810	70	214	391	66	122	566	38	484	867	221
Confl. Peds. (#/hr)	8		9	9		8	2		21	21		2
Confl. Bikes (#/hr)			6			5						
Heavy Vehicles (%)	5%	2%	6%	1%	4%	14%	4%	5%	2%	7%	4%	4%
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Free
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			Free
Actuated Green, G (s)	13.2	32.6	32.6	12.8	32.2	32.2	10.5	30.2	30.2	19.7	39.4	116.0
Effective Green, g (s)	13.2	32.6	32.6	12.8	32.2	32.2	10.5	30.2	30.2	19.7	39.4	116.0
Actuated g/C Ratio	0.11	0.28	0.28	0.11	0.28	0.28	0.09	0.26	0.26	0.17	0.34	1.00
Clearance Time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	
Vehicle Extension (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Lane Grp Cap (vph)	379	994	416	382	963	383	304	895	398	555	1694	1533
v/s Ratio Prot	c0.07	c0.23		0.06	0.11		0.04	c0.16		c0.15	0.17	
v/s Ratio Perm			0.05			0.05			0.02			c0.14
v/c Ratio	0.58	0.81	0.17	0.56	0.41	0.17	0.40	0.63	0.09	0.87	0.51	0.14
Uniform Delay, d1	48.8	38.9	31.5	48.9	34.1	31.8	49.8	38.0	32.5	46.9	30.6	0.0
Progression 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
Incremental Delay, d2	2.7	5.5	0.3	2.3	0.4	0.3	1.2	3.4	0.5	14.5	0.3	0.2
Delay (s)	51.5	44.4	31.7	51.2	34.5	32.1	51.0	41.4	33.0	61.4	31.0	0.2
Level of Service	D	D	C	D	C	C	D	D	C	E	C	A
Approach Delay (s)		43.9			38.7			41.3			36.0	
Approach LOS		D			D			D			D	

Intersection Summary			
HCM 2000 Control Delay	39.7	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.74		
Actuated Cycle Length (s)	116.0	Sum of lost time (s)	20.7
Intersection Capacity Utilization	83.2%	ICU Level of Service	E
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)	201	737	151	195	356	137	111	515	132	440	789	201
Future Volume (veh/h)	201	737	151	195	356	137	111	515	132	440	789	201
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.97	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	1826	1870	1811	1885	1841	1693	1841	1826	1870	1796	1841	1841
Adj Flow Rate, veh/h	221	810	166	214	391	151	122	566	0	484	867	0
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	5	2	6	1	4	14	4	5	2	7	4	4
Cap, veh/h	284	954	401	280	934	373	184	1335		283	2091	
Arrive On Green	0.08	0.27	0.27	0.08	0.27	0.27	0.05	0.38	0.00	0.09	0.42	0.00
Sat Flow, veh/h	3374	3554	1494	3483	3497	1397	3401	3469	1585	3319	5025	1560
Grp Volume(v), veh/h	221	810	166	214	391	151	122	566	0	484	867	0
Grp Sat Flow(s),veh/h/ln	1687	1777	1494	1742	1749	1397	1700	1735	1585	1659	1675	1560
Q Serve(g_s), s	7.4	25.1	10.6	7.0	10.7	10.3	4.1	13.9	0.0	9.9	14.1	0.0
Cycle Q Clear(g_c), s	7.4	25.1	10.6	7.0	10.7	10.3	4.1	13.9	0.0	9.9	14.1	0.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	284	954	401	280	934	373	184	1335		283	2091	
V/C Ratio(X)	0.78	0.85	0.41	0.77	0.42	0.40	0.66	0.42		1.71	0.41	
Avail Cap(c_a), veh/h	375	1039	437	378	1013	405	437	1335		283	2091	
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	0.00	0.84	0.84	0.00
Uniform Delay (d), s/veh	52.0	40.2	34.9	52.3	35.1	34.9	53.8	26.2	0.0	53.0	23.9	0.0
Incr Delay (d2), s/veh	8.8	6.7	1.0	7.8	0.4	1.0	5.7	1.0	0.0	331.3	0.2	0.0
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(50%),veh/ln	3.5	11.7	4.0	3.4	4.6	3.6	1.9	5.9	0.0	17.1	5.6	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	60.8	46.9	35.9	60.1	35.5	35.9	59.5	27.2	0.0	384.4	24.1	0.0
LnGrp LOS	E	D	D	E	D	D	E	C		F	C	
Approach Vol, veh/h		1197			756			688	A		1351	A
Approach Delay, s/veh		47.9			42.5			32.9			153.1	
Approach LOS		D			D			C			F	

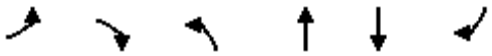
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.0	49.7	14.7	36.5	11.4	53.4	14.9	36.4
Change Period (Y+Rc), s	5.1	5.1	5.4	* 5.4	5.1	5.1	5.1	5.4
Max Green Setting (Gmax), s	9.9	38.9	12.6	* 34	14.9	33.9	12.9	33.6
Max Q Clear Time (g_c+I1), s	11.9	15.9	9.0	27.1	6.1	16.1	9.4	12.7
Green Ext Time (p_c), s	0.0	5.4	0.3	4.1	0.3	7.6	0.3	4.3

Intersection Summary	
HCM 6th Ctrl Delay	79.9
HCM 6th LOS	E

Notes

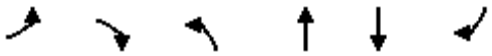
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	1	2	0	950	504	9
Future Volume (vph)	1	2	0	950	504	9
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	0.95	0.95	0.95	0.95
Frt	0.910				0.997	
Flt Protected	0.984					
Satd. Flow (prot)	1668	0	0	3539	3529	0
Flt Permitted	0.984					
Satd. Flow (perm)	1668	0	0	3539	3529	0
Link Speed (mph)	30			30	30	
Link Distance (ft)	343			121	2249	
Travel Time (s)	7.8			2.8	51.1	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	1	2	0	1033	548	10
Shared Lane Traffic (%)						
Lane Group Flow (vph)	3	0	0	1033	558	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			24	24	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop			Free	Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 36.3%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	1	2	0	950	504	9
Future Volume (Veh/h)	1	2	0	950	504	9
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	1	2	0	1033	548	10
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)				637		
pX, platoon unblocked	0.83					
vC, conflicting volume	1070	279	558			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	680	279	558			
tC, single (s)	6.8	6.9	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	100			
cM capacity (veh/h)	320	718	1009			

Direction, Lane #	EB 1	NB 1	NB 2	SB 1	SB 2
Volume Total	3	344	689	365	193
Volume Left	1	0	0	0	0
Volume Right	2	0	0	0	10
cSH	508	1009	1700	1700	1700
Volume to Capacity	0.01	0.00	0.41	0.21	0.11
Queue Length 95th (ft)	0	0	0	0	0
Control Delay (s)	12.1	0.0	0.0	0.0	0.0
Lane LOS	B				
Approach Delay (s)	12.1	0.0		0.0	
Approach LOS	B				

Intersection Summary				
Average Delay	0.0			
Intersection Capacity Utilization	36.3%	ICU Level of Service		A
Analysis Period (min)	15			

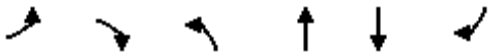
Intersection	
Int Delay, s/veh	0

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	1	2	0	950	504	9
Future Vol, veh/h	1	2	0	950	504	9
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	-	-	-	-	-
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	1	2	0	1033	548	10

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1070	279	558	0	-	0
Stage 1	553	-	-	-	-	-
Stage 2	517	-	-	-	-	-
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	216	718	1009	-	-	-
Stage 1	540	-	-	-	-	-
Stage 2	563	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	216	718	1009	-	-	-
Mov Cap-2 Maneuver	216	-	-	-	-	-
Stage 1	540	-	-	-	-	-
Stage 2	563	-	-	-	-	-

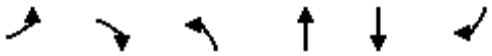
Approach	EB	NB	SB
HCM Control Delay, s	14	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1009	-	405	-	-
HCM Lane V/C Ratio	-	-	0.008	-	-
HCM Control Delay (s)	0	-	14	-	-
HCM Lane LOS	A	-	B	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	0	1	32	950	506	0
Future Volume (vph)	0	1	32	950	506	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	0.95	0.95	0.95	0.95
Frt	0.865					
Flt Protected				0.998		
Satd. Flow (prot)	1611	0	0	3532	3539	0
Flt Permitted				0.998		
Satd. Flow (perm)	1611	0	0	3532	3539	0
Link Speed (mph)	30			30	30	
Link Distance (ft)	110			516	121	
Travel Time (s)	2.5			11.7	2.8	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	1	35	1033	550	0
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1	0	0	1068	550	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop			Free	Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 54.5%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	0	1	32	950	506	0
Future Volume (Veh/h)	0	1	32	950	506	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	1	35	1033	550	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)				516		
pX, platoon unblocked	0.79					
vC, conflicting volume	1136	275	550			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	642	275	550			
tC, single (s)	6.8	6.9	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	97			
cM capacity (veh/h)	310	722	1016			

Direction, Lane #	EB 1	NB 1	NB 2	SB 1	SB 2
Volume Total	1	379	689	367	183
Volume Left	0	35	0	0	0
Volume Right	1	0	0	0	0
cSH	722	1016	1700	1700	1700
Volume to Capacity	0.00	0.03	0.41	0.22	0.11
Queue Length 95th (ft)	0	3	0	0	0
Control Delay (s)	10.0	1.1	0.0	0.0	0.0
Lane LOS	A	A			
Approach Delay (s)	10.0	0.4		0.0	
Approach LOS	A				

Intersection Summary			
Average Delay	0.3		
Intersection Capacity Utilization	54.5%	ICU Level of Service	A
Analysis Period (min)	15		

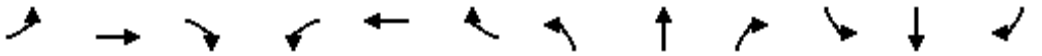
Intersection	
Int Delay, s/veh	0.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	1	32	950	506	0
Future Vol, veh/h	0	1	32	950	506	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	-	-	-	-	-
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	0	1	35	1033	550	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1137	275	550	0	-	0
Stage 1	550	-	-	-	-	-
Stage 2	587	-	-	-	-	-
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	195	722	1016	-	-	-
Stage 1	542	-	-	-	-	-
Stage 2	519	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	179	722	1016	-	-	-
Mov Cap-2 Maneuver	179	-	-	-	-	-
Stage 1	498	-	-	-	-	-
Stage 2	519	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	10	0.6	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1016	-	722	-	-
HCM Lane V/C Ratio	0.034	-	0.002	-	-
HCM Control Delay (s)	8.7	0.3	10	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0.1	-	0	-	-



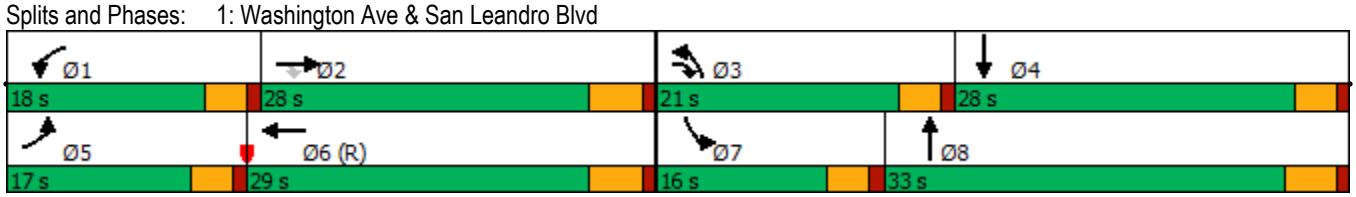
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	22	543	525	114	268	47	300	266	98	78	262	7
Future Volume (vph)	22	543	525	114	268	47	300	266	98	78	262	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	140		150	90		0	120		0	80		0
Storage Lanes	1		1	1		0	2		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95	0.95	0.97	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor	1.00		0.98	1.00	1.00		1.00	0.99		0.99	1.00	
Frt			0.850		0.978			0.960			0.996	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1517	3539	1583	1752	3463	0	3467	3387	0	1787	3526	0
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1512	3539	1559	1750	3463	0	3460	3387	0	1778	3526	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			314		20			57			3	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		977			885			2254			891	
Travel Time (s)		22.2			20.1			51.2			20.3	
Confl. Peds. (#/hr)	5		3	3		5	2		9	9		2
Confl. Bikes (#/hr)			1						1			
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Heavy Vehicles (%)	19%	2%	2%	3%	2%	0%	1%	2%	1%	1%	2%	0%
Adj. Flow (vph)	22	554	536	116	273	48	306	271	100	80	267	7
Shared Lane Traffic (%)												
Lane Group Flow (vph)	22	554	536	116	321	0	306	371	0	80	274	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway 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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2		1	2		1	2	
Detector Template	Left	Thru	Right	Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100	20	20	100		20	100		20	100	
Trailing Detector (ft)	0	0	0	0	0		0	0		0	0	
Detector 1 Position(ft)	0	0	0	0	0		0	0		0	0	
Detector 1 Size(ft)	20	6	20	20	6		20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												

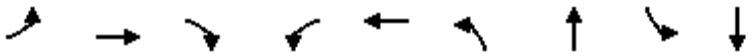
Lanes, Volumes, Timings
1: Washington Ave & San Leandro Blvd 05/20/2022

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Prot	NA	pm+ov	Prot	NA		Prot	NA		Prot	NA	
Protected Phases	5	2	3	1	6		3	8		7	4	
Permitted Phases			2									
Detector Phase	5	2	3	1	6		3	8		7	4	
Switch Phase												
Minimum Initial (s)	4.0	4.0	4.0	4.0	4.0		4.0	4.0		4.0	4.0	
Minimum Split (s)	8.0	34.9	8.0	8.0	32.9		8.0	33.6		8.0	34.0	
Total Split (s)	17.0	28.0	21.0	18.0	29.0		21.0	33.0		16.0	28.0	
Total Split (%)	17.9%	29.5%	22.1%	18.9%	30.5%		22.1%	34.7%		16.8%	29.5%	
Maximum Green (s)	13.0	23.1	17.0	14.0	24.1		17.0	28.4		12.0	24.0	
Yellow Time (s)	3.0	3.9	3.0	3.0	3.9		3.0	3.6		3.0	3.0	
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Lead/Lag	Lead	Lag	Lead	Lead	Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes		Yes	Yes		Yes	Yes	
Vehicle Extension (s)	2.0	3.0	2.0	2.0	3.0		2.0	3.0		2.0	3.0	
Minimum Gap (s)	2.0	2.0	2.0	2.0	2.0		2.0	2.0		2.0	2.0	
Time Before Reduce (s)	3.0	13.0	7.0	5.0	12.0		7.0	9.0		6.0	9.0	
Time To Reduce (s)	4.0	15.0	8.0	6.0	13.0		8.0	10.0		7.0	11.0	
Recall Mode	None	Min	None	None	C-Min		None	None		None	None	
Walk Time (s)		7.0			7.0			7.0			7.0	
Flash Dont Walk (s)		23.0			21.0			22.0			23.0	
Pedestrian Calls (#/hr)		5			5			5			5	
Act Effct Green (s)	6.0	40.7	54.4	10.4	50.5		12.8	19.6		8.5	14.2	
Actuated g/C Ratio	0.06	0.43	0.57	0.11	0.53		0.13	0.21		0.09	0.15	
v/c Ratio	0.23	0.37	0.52	0.61	0.17		0.66	0.50		0.50	0.52	
Control Delay	47.5	21.9	7.1	53.2	14.1		45.5	30.1		51.2	39.4	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	47.5	21.9	7.1	53.2	14.1		45.5	30.1		51.2	39.4	
LOS	D	C	A	D	B		D	C		D	D	
Approach Delay		15.3			24.5			37.1			42.1	
Approach LOS		B			C			D			D	

Intersection Summary			
Area Type:	Other		
Cycle Length: 95			
Actuated Cycle Length: 95			
Offset: 39 (41%), Referenced to phase 6:WBT, Start of Green			
Natural Cycle: 85			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.66			
Intersection Signal Delay: 26.2		Intersection LOS: C	
Intersection Capacity Utilization 59.8%		ICU Level of Service B	
Analysis Period (min) 15			

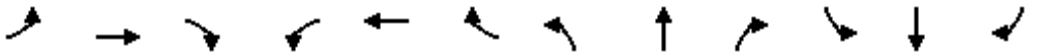
Splits and Phases: 1: Washington Ave & San Leandro Blvd





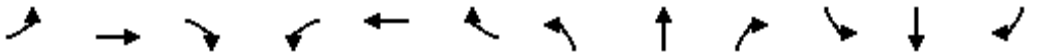
Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	22	554	536	116	321	306	371	80	274
v/c Ratio	0.23	0.37	0.52	0.61	0.17	0.66	0.50	0.50	0.52
Control Delay	47.5	21.9	7.1	53.2	14.1	45.5	30.1	51.2	39.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	47.5	21.9	7.1	53.2	14.1	45.5	30.1	51.2	39.4
Queue Length 50th (ft)	13	112	52	68	38	91	92	47	82
Queue Length 95th (ft)	36	215	183	120	108	128	116	90	105
Internal Link Dist (ft)		897			805		2174		811
Turn Bay Length (ft)	140		150	90		120		80	
Base Capacity (vph)	207	1516	1086	258	1851	620	1052	225	893
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.11	0.37	0.49	0.45	0.17	0.49	0.35	0.36	0.31

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	22	543	525	114	268	47	300	266	98	78	262	7
Future Volume (vph)	22	543	525	114	268	47	300	266	98	78	262	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95		0.97	0.95		1.00	0.95	
Frpb, ped/bikes	1.00	1.00	0.99	1.00	1.00		1.00	0.99		1.00	1.00	
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00	
Frt	1.00	1.00	0.85	1.00	0.98		1.00	0.96		1.00	1.00	
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1517	3539	1565	1752	3461		3467	3385		1787	3526	
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1517	3539	1565	1752	3461		3467	3385		1787	3526	
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	22	554	536	116	273	48	306	271	100	80	267	7
RTOR Reduction (vph)	0	0	140	0	10	0	0	45	0	0	3	0
Lane Group Flow (vph)	22	554	396	116	311	0	306	326	0	80	271	0
Confl. Peds. (#/hr)	5		3	3		5	2		9	9		2
Confl. Bikes (#/hr)			1						1			
Heavy Vehicles (%)	19%	2%	2%	3%	2%	0%	1%	2%	1%	1%	2%	0%
Turn Type	Prot	NA	pm+ov	Prot	NA		Prot	NA		Prot	NA	
Protected Phases	5	2	3	1	6		3	8		7	4	
Permitted Phases			2									
Actuated Green, G (s)	3.0	39.9	52.7	10.4	47.3		12.8	19.6		7.6	15.0	
Effective Green, g (s)	3.0	39.9	52.7	10.4	47.3		12.8	19.6		7.6	15.0	
Actuated g/C Ratio	0.03	0.42	0.55	0.11	0.50		0.13	0.21		0.08	0.16	
Clearance Time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Vehicle Extension (s)	2.0	3.0	2.0	2.0	3.0		2.0	3.0		2.0	3.0	
Lane Grp Cap (vph)	47	1486	868	191	1723		467	698		142	556	
v/s Ratio Prot	0.01	0.16	c0.06	c0.07	0.09		c0.09	c0.10		0.04	0.08	
v/s Ratio Perm			0.19									
v/c Ratio	0.47	0.37	0.46	0.61	0.18		0.66	0.47		0.56	0.49	
Uniform Delay, d1	45.2	18.9	12.6	40.4	13.2		39.0	33.1		42.1	36.5	
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	2.7	0.2	0.1	3.7	0.2		2.5	0.5		3.0	0.7	
Delay (s)	47.9	19.1	12.7	44.1	13.4		41.5	33.6		45.1	37.2	
Level of Service	D	B	B	D	B		D	C		D	D	
Approach Delay (s)		16.6			21.5			37.2			39.0	
Approach LOS		B			C			D			D	

Intersection Summary			
HCM 2000 Control Delay	25.9	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.53		
Actuated Cycle Length (s)	95.0	Sum of lost time (s)	17.5
Intersection Capacity Utilization	59.8%	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 (veh/h)	22	543	525	114	268	47	300	266	98	78	262	7
Future Volume (veh/h)	22	543	525	114	268	47	300	266	98	78	262	7
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	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	1618	1870	1870	1856	1870	1900	1885	1870	1885	1885	1870	1900
Adj Flow Rate, veh/h	22	554	536	116	273	48	306	271	0	80	267	0
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	19	2	2	3	2	0	1	2	1	1	2	0
Cap, veh/h	29	864	553	145	928	161	385	677		103	489	
Arrive On Green	0.02	0.24	0.24	0.08	0.31	0.31	0.11	0.19	0.00	0.06	0.14	0.00
Sat Flow, veh/h	1541	3554	1555	1767	3025	525	3483	3647	0	1795	3647	0
Grp Volume(v), veh/h	22	554	536	116	159	162	306	271	0	80	267	0
Grp Sat Flow(s),veh/h/ln	1541	1777	1555	1767	1777	1773	1742	1777	0	1795	1777	0
Q Serve(g_s), s	1.4	13.3	23.1	6.1	6.5	6.6	8.1	6.3	0.0	4.2	6.7	0.0
Cycle Q Clear(g_c), s	1.4	13.3	23.1	6.1	6.5	6.6	8.1	6.3	0.0	4.2	6.7	0.0
Prop In Lane	1.00		1.00	1.00		0.30	1.00		0.00	1.00		0.00
Lane Grp Cap(c), veh/h	29	864	553	145	545	544	385	677		103	489	
V/C Ratio(X)	0.77	0.64	0.97	0.80	0.29	0.30	0.80	0.40		0.78	0.55	
Avail Cap(c_a), veh/h	211	864	553	260	545	544	623	1062		227	898	
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	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	46.4	32.2	30.3	42.8	25.1	25.1	41.2	33.7	0.0	44.2	38.2	0.0
Incr Delay (d2), s/veh	14.8	1.6	30.4	3.8	1.4	1.4	1.4	0.4	0.0	4.6	1.0	0.0
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(50%),veh/ln	0.6	5.8	16.2	2.8	2.9	3.0	3.5	2.7	0.0	2.0	2.9	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	61.2	33.8	60.7	46.6	26.4	26.5	42.6	34.1	0.0	48.8	39.2	0.0
LnGrp LOS	E	C	E	D	C	C	D	C		D	D	
Approach Vol, veh/h		1112			437			577	A		347	A
Approach Delay, s/veh		47.3			31.8			38.6			41.4	
Approach LOS		D			C			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.8	28.0	14.5	17.7	5.8	34.0	9.5	22.7
Change Period (Y+Rc), s	4.0	4.9	4.0	* 4.6	4.0	4.9	4.0	4.6
Max Green Setting (Gmax), s	14.0	23.1	17.0	* 24	13.0	24.1	12.0	28.4
Max Q Clear Time (g_c+I1), s	8.1	25.1	10.1	8.7	3.4	8.6	6.2	8.3
Green Ext Time (p_c), s	0.1	0.0	0.4	1.4	0.0	1.6	0.0	1.6

Intersection Summary	
HCM 6th Ctrl Delay	41.7
HCM 6th LOS	D

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.

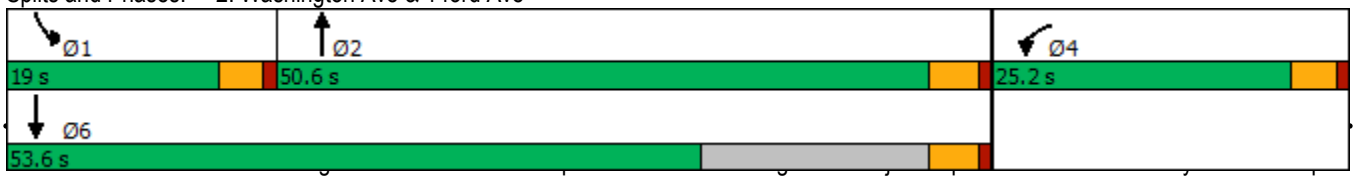
Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	153	82	595	191	117	850
Future Volume (vph)	153	82	595	191	117	850
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	90		0	100	
Storage Lanes	2	1		0	1	
Taper Length (ft)	25				25	
Lane Util. Factor	0.97	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	0.99		0.99		1.00	
Frt	0.948		0.964			
Flt Protected	0.968				0.950	
Satd. Flow (prot)	3301	0	3427	0	1719	3574
Flt Permitted	0.968				0.950	
Satd. Flow (perm)	3301	0	3427	0	1718	3574
Right Turn on Red		Yes		Yes		
Satd. Flow (RTOR)	88		63			
Link Speed (mph)	30		30			30
Link Distance (ft)	1330		895			529
Travel Time (s)	30.2		20.3			12.0
Confl. Peds. (#/hr)		1		1	1	
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles (%)	1%	3%	1%	1%	5%	1%
Adj. Flow (vph)	165	88	640	205	126	914
Shared Lane Traffic (%)						
Lane Group Flow (vph)	253	0	845	0	126	914
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	24		12			12
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Number of Detectors	1		2		1	2
Detector Template	Left		Thru		Left	Thru
Leading Detector (ft)	20		100		20	100
Trailing Detector (ft)	0		0		0	0
Detector 1 Position(ft)	0		0		0	0
Detector 1 Size(ft)	20		6		20	6
Detector 1 Type	Cl+Ex		Cl+Ex		Cl+Ex	Cl+Ex
Detector 1 Channel						
Detector 1 Extend (s)	0.0		0.0		0.0	0.0
Detector 1 Queue (s)	0.0		0.0		0.0	0.0
Detector 1 Delay (s)	0.0		0.0		0.0	0.0
Detector 2 Position(ft)			94			94
Detector 2 Size(ft)			6			6
Detector 2 Type			Cl+Ex			Cl+Ex
Detector 2 Channel						
Detector 2 Extend (s)			0.0			0.0

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Turn Type	Prot		NA		Prot	NA
Protected Phases	4		2		1	6
Permitted Phases						
Detector Phase	4		2		1	6
Switch Phase						
Minimum Initial (s)	6.0		6.0		4.0	6.0
Minimum Split (s)	26.2		21.6		8.0	10.6
Total Split (s)	25.2		50.6		19.0	53.6
Total Split (%)	26.6%		53.4%		20.0%	56.5%
Maximum Green (s)	21.0		46.0		15.0	49.0
Yellow Time (s)	3.2		3.6		3.0	3.6
All-Red Time (s)	1.0		1.0		1.0	1.0
Lost Time Adjust (s)	0.0		0.0		0.0	0.0
Total Lost Time (s)	4.2		4.6		4.0	4.6
Lead/Lag			Lag		Lead	
Lead-Lag Optimize?			Yes		Yes	
Vehicle Extension (s)	2.0		2.0		2.0	2.0
Minimum Gap (s)	2.0		3.0		2.0	3.0
Time Before Reduce (s)	7.0		22.0		5.0	22.0
Time To Reduce (s)	9.0		30.0		6.0	30.0
Recall Mode	None		Min		None	Min
Walk Time (s)	7.0		7.0			
Flash Dont Walk (s)	15.0		10.0			
Pedestrian Calls (#/hr)	5		5			
Act Effct Green (s)	9.3		19.9		8.7	30.1
Actuated g/C Ratio	0.19		0.41		0.18	0.61
v/c Ratio	0.36		0.59		0.41	0.42
Control Delay	14.4		14.2		26.3	5.8
Queue Delay	0.0		0.0		0.0	0.0
Total Delay	14.4		14.2		26.3	5.8
LOS	B		B		C	A
Approach Delay	14.4		14.2			8.3
Approach LOS	B		B			A

Intersection Summary			
Area Type:	Other		
Cycle Length: 94.8			
Actuated Cycle Length: 49.1			
Natural Cycle: 60			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.59			
Intersection Signal Delay: 11.3		Intersection LOS: B	
Intersection Capacity Utilization 47.1%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 2: Washington Ave & 143rd Ave



Lane Group	WBL	NBT	SBL	SBT
Lane Group Flow (vph)	253	845	126	914
v/c Ratio	0.36	0.59	0.41	0.42
Control Delay	14.4	14.2	26.3	5.8
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	14.4	14.2	26.3	5.8
Queue Length 50th (ft)	19	81	29	44
Queue Length 95th (ft)	60	221	108	148
Internal Link Dist (ft)	1250	815		449
Turn Bay Length (ft)			100	
Base Capacity (vph)	1611	3141	579	3441
Starvation Cap Reductn	0	0	0	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.16	0.27	0.22	0.27

Intersection Summary

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	153	82	595	191	117	850
Future Volume (vph)	153	82	595	191	117	850
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.2		4.6		4.0	4.6
Lane Util. Factor	0.97		0.95		1.00	0.95
Frpb, ped/bikes	0.99		0.99		1.00	1.00
Flpb, ped/bikes	1.00		1.00		1.00	1.00
Frt	0.95		0.96		1.00	1.00
Flt Protected	0.97		1.00		0.95	1.00
Satd. Flow (prot)	3303		3426		1719	3574
Flt Permitted	0.97		1.00		0.95	1.00
Satd. Flow (perm)	3303		3426		1719	3574
Peak-hour factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	165	88	640	205	126	914
RTOR Reduction (vph)	71	0	37	0	0	0
Lane Group Flow (vph)	182	0	808	0	126	914
Confl. Peds. (#/hr)		1		1	1	
Heavy Vehicles (%)	1%	3%	1%	1%	5%	1%
Turn Type	Prot		NA		Prot	NA
Protected Phases	4		2		1	6
Permitted Phases						
Actuated Green, G (s)	9.3		19.9		7.0	30.9
Effective Green, g (s)	9.3		19.9		7.0	30.9
Actuated g/C Ratio	0.19		0.41		0.14	0.63
Clearance Time (s)	4.2		4.6		4.0	4.6
Vehicle Extension (s)	2.0		2.0		2.0	2.0
Lane Grp Cap (vph)	626		1391		245	2253
v/s Ratio Prot	c0.06		c0.24		c0.07	0.26
v/s Ratio Perm						
v/c Ratio	0.29		0.58		0.51	0.41
Uniform Delay, d1	17.0		11.3		19.4	4.5
Progression Factor	1.00		1.00		1.00	1.00
Incremental Delay, d2	0.1		0.4		0.8	0.0
Delay (s)	17.1		11.7		20.2	4.5
Level of Service	B		B		C	A
Approach Delay (s)	17.1		11.7			6.4
Approach LOS	B		B			A

Intersection Summary			
HCM 2000 Control Delay	9.8	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.49		
Actuated Cycle Length (s)	49.0	Sum of lost time (s)	12.8
Intersection Capacity Utilization	47.1%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

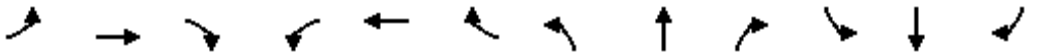
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	153	82	595	191	117	850
Future Volume (veh/h)	153	82	595	191	117	850
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1885	1856	1885	1885	1826	1885
Adj Flow Rate, veh/h	126	0	640	205	126	914
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	1	3	1	1	5	1
Cap, veh/h	227		1019	326	160	2146
Arrive On Green	0.13	0.00	0.38	0.38	0.09	0.60
Sat Flow, veh/h	1795	1572	2762	854	1739	3676
Grp Volume(v), veh/h	126	0	429	416	126	914
Grp Sat Flow(s),veh/h/ln	1795	1572	1791	1730	1739	1791
Q Serve(g_s), s	2.1	0.0	6.2	6.3	2.3	4.4
Cycle Q Clear(g_c), s	2.1	0.0	6.2	6.3	2.3	4.4
Prop In Lane	1.00	1.00		0.49	1.00	
Lane Grp Cap(c), veh/h	227		684	661	160	2146
V/C Ratio(X)	0.56		0.63	0.63	0.79	0.43
Avail Cap(c_a), veh/h	1176		2570	2483	814	5476
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	13.2	0.0	8.0	8.0	14.2	3.5
Incr Delay (d2), s/veh	0.8	0.0	0.4	0.4	3.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	0.0	1.5	1.5	0.8	0.4
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	14.0	0.0	8.4	8.4	17.4	3.5
LnGrp LOS	B		A	A	B	A
Approach Vol, veh/h	126	A	845			1040
Approach Delay, s/veh	14.0		8.4			5.2
Approach LOS	B		A			A

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	7.0	16.8		8.2		23.8
Change Period (Y+Rc), s	4.0	4.6		* 4.2		4.6
Max Green Setting (Gmax), s	15.0	46.0		* 21		49.0
Max Q Clear Time (g_c+I1), s	4.3	8.3		4.1		6.4
Green Ext Time (p_c), s	0.1	3.9		0.1		5.0

Intersection Summary	
HCM 6th Ctrl Delay	7.1
HCM 6th LOS	A

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



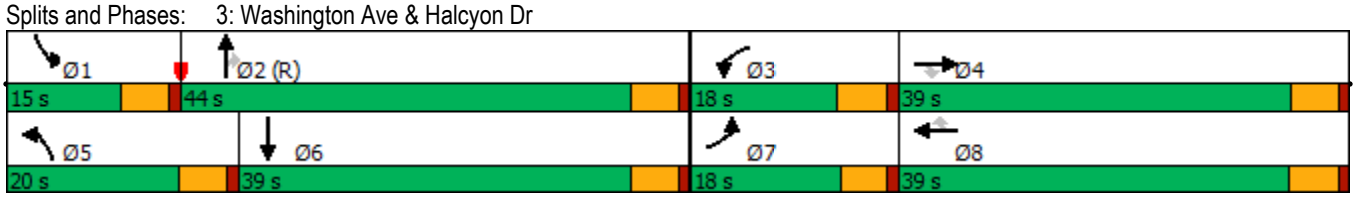
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	178	701	300	243	506	144	236	423	232	184	596	243
Future Volume (vph)	178	701	300	243	506	144	236	423	232	184	596	243
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	140		170	225		25	145		225	195		100
Storage Lanes	2		1	2		1	2		1	2		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.91	1.00
Ped Bike Factor	0.99		0.97	1.00		0.98	1.00		0.98	1.00		0.99
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3502	3574	1568	3502	3505	1568	3242	3574	1599	3467	5085	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3470	3574	1528	3487	3505	1532	3228	3574	1575	3457	5085	1560
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			237			118			242			173
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		528			456			1136			1014	
Travel Time (s)		12.0			10.4			25.8			23.0	
Confl. Peds. (#/hr)	9		9	9		9	9		3	3		9
Confl. Bikes (#/hr)			3									
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	0%	1%	3%	0%	3%	3%	8%	1%	1%	1%	2%	2%
Adj. Flow (vph)	185	730	313	253	527	150	246	441	242	192	621	253
Shared Lane Traffic (%)												
Lane Group Flow (vph)	185	730	313	253	527	150	246	441	242	192	621	253
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		24			24			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane					Yes							
Headway 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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2	1	1	2	1	1	2	1
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Leading Detector (ft)	20	100	20	20	100	20	20	100	20	20	100	20
Trailing Detector (ft)	0	0	0	0	0	0	0	0	0	0	0	0
Detector 1 Position(ft)	0	0	0	0	0	0	0	0	0	0	0	0
Detector 1 Size(ft)	20	6	20	20	6	20	20	6	20	20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												

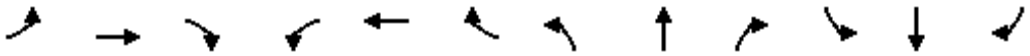
Lanes, Volumes, Timings
3: Washington Ave & Halcyon Dr 05/20/2022

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Free
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			Free
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	
Switch Phase												
Minimum Initial (s)	8.0	12.0	12.0	4.0	8.0	8.0	4.0	9.0	9.0	5.0	9.0	
Minimum Split (s)	13.1	33.1	33.1	9.4	33.4	33.4	9.1	37.1	37.1	10.1	35.1	
Total Split (s)	18.0	39.0	39.0	18.0	39.0	39.0	20.0	44.0	44.0	15.0	39.0	
Total Split (%)	15.5%	33.6%	33.6%	15.5%	33.6%	33.6%	17.2%	37.9%	37.9%	12.9%	33.6%	
Maximum Green (s)	12.9	33.9	33.9	12.6	33.6	33.6	14.9	38.9	38.9	9.9	33.9	
Yellow Time (s)	4.1	4.1	4.1	4.4	4.4	4.4	4.1	4.1	4.1	4.1	4.1	
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Minimum Gap (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Time Before Reduce (s)	4.0	7.0	7.0	3.0	6.0	6.0	4.0	5.0	5.0	5.0	7.0	
Time To Reduce (s)	5.0	9.0	9.0	4.0	8.0	8.0	5.0	7.0	7.0	7.0	10.0	
Recall Mode	None	None	None	None	None	None	None	C-Min	C-Min	None	Min	
Walk Time (s)		6.0	6.0		6.0	6.0		6.0	6.0		6.0	
Flash Dont Walk (s)		22.0	22.0		22.0	22.0		26.0	26.0		24.0	
Pedestrian Calls (#/hr)		5	5		5	5		5	5		5	
Act Effct Green (s)	12.4	30.8	30.8	14.2	32.6	32.6	14.2	38.9	38.9	11.5	36.2	116.0
Actuated g/C Ratio	0.11	0.27	0.27	0.12	0.28	0.28	0.12	0.34	0.34	0.10	0.31	1.00
v/c Ratio	0.50	0.77	0.54	0.59	0.54	0.29	0.62	0.37	0.35	0.56	0.39	0.16
Control Delay	53.1	45.1	12.7	53.8	37.1	10.2	55.5	31.7	5.4	56.6	33.6	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	53.1	45.1	12.7	53.8	37.1	10.2	55.5	31.7	5.4	56.6	33.6	0.2
LOS	D	D	B	D	D	B	E	C	A	E	C	A
Approach Delay		38.1			37.3			31.2			29.8	
Approach LOS		D			D			C			C	

Intersection Summary			
Area Type:	Other		
Cycle Length: 116			
Actuated Cycle Length: 116			
Offset: 98 (84%), Referenced to phase 2:NBT, Start of Green			
Natural Cycle: 95			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.77			
Intersection Signal Delay: 34.2		Intersection LOS: C	
Intersection Capacity Utilization 76.5%		ICU Level of Service D	
Analysis Period (min) 15			

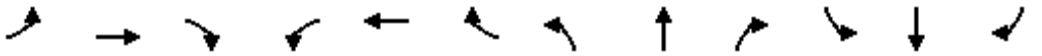
Splits and Phases: 3: Washington Ave & Halcyon Dr





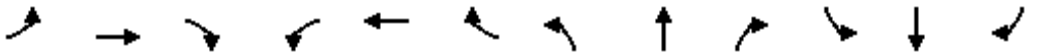
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	185	730	313	253	527	150	246	441	242	192	621	253
v/c Ratio	0.50	0.77	0.54	0.59	0.54	0.29	0.62	0.37	0.35	0.56	0.39	0.16
Control Delay	53.1	45.1	12.7	53.8	37.1	10.2	55.5	31.7	5.4	56.6	33.6	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	53.1	45.1	12.7	53.8	37.1	10.2	55.5	31.7	5.4	56.6	33.6	0.2
Queue Length 50th (ft)	68	262	43	93	172	17	90	135	0	71	136	0
Queue Length 95th (ft)	102	325	127	134	224	67	134	185	59	112	183	0
Internal Link Dist (ft)		448			376			1056			934	
Turn Bay Length (ft)	140		170	225		25	145		225	195		100
Base Capacity (vph)	409	1050	616	438	1047	540	425	1290	723	344	1672	1560
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.45	0.70	0.51	0.58	0.50	0.28	0.58	0.34	0.33	0.56	0.37	0.16

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	178	701	300	243	506	144	236	423	232	184	596	243
Future Volume (vph)	178	701	300	243	506	144	236	423	232	184	596	243
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	4.0
Lane Util. Factor	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.91	1.00
Frpb, ped/bikes	1.00	1.00	0.97	1.00	1.00	0.98	1.00	1.00	0.98	1.00	1.00	0.99
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3502	3574	1528	3502	3505	1532	3242	3574	1575	3467	5085	1560
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3502	3574	1528	3502	3505	1532	3242	3574	1575	3467	5085	1560
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	185	730	312	253	527	150	246	441	242	192	621	253
RTOR Reduction (vph)	0	0	174	0	0	85	0	0	161	0	0	0
Lane Group Flow (vph)	185	730	139	253	527	65	246	441	81	192	621	253
Confl. Peds. (#/hr)	9		9	9		9	9		3	3		9
Confl. Bikes (#/hr)			3									
Heavy Vehicles (%)	0%	1%	3%	0%	3%	3%	8%	1%	1%	1%	2%	2%
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Free
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			Free
Actuated Green, G (s)	12.4	30.8	30.8	14.2	32.6	32.6	14.2	38.8	38.8	11.5	36.1	116.0
Effective Green, g (s)	12.4	30.8	30.8	14.2	32.6	32.6	14.2	38.8	38.8	11.5	36.1	116.0
Actuated g/C Ratio	0.11	0.27	0.27	0.12	0.28	0.28	0.12	0.33	0.33	0.10	0.31	1.00
Clearance Time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	
Vehicle Extension (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Lane Grp Cap (vph)	374	948	405	428	985	430	396	1195	526	343	1582	1560
v/s Ratio Prot	0.05	c0.20		c0.07	0.15		c0.08	c0.12		0.06	0.12	
v/s Ratio Perm			0.09			0.04			0.05			c0.16
v/c Ratio	0.49	0.77	0.34	0.59	0.54	0.15	0.62	0.37	0.15	0.56	0.39	0.16
Uniform Delay, d1	48.8	39.3	34.4	48.2	35.3	31.3	48.3	29.3	27.1	49.8	31.3	0.0
Progression 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
Incremental Delay, d2	1.4	4.1	0.7	2.6	0.7	0.2	3.4	0.9	0.6	2.4	0.2	0.2
Delay (s)	50.3	43.5	35.1	50.7	36.0	31.5	51.8	30.2	27.7	52.3	31.6	0.2
Level of Service	D	D	D	D	D	C	D	C	C	D	C	A
Approach Delay (s)		42.4			39.3			35.3			27.9	
Approach LOS		D			D			D			C	

Intersection Summary			
HCM 2000 Control Delay	36.4	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.59		
Actuated Cycle Length (s)	116.0	Sum of lost time (s)	20.7
Intersection Capacity Utilization	76.5%	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)	178	701	300	243	506	144	236	423	232	184	596	243
Future Volume (veh/h)	178	701	300	243	506	144	236	423	232	184	596	243
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.99	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	1900	1885	1856	1900	1856	1856	1781	1885	1885	1885	1870	1870
Adj Flow Rate, veh/h	185	730	312	253	527	150	246	441	0	192	621	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	1	3	0	3	3	8	1	1	1	2	2
Cap, veh/h	252	914	391	317	974	430	311	1437		252	1935	
Arrive On Green	0.07	0.26	0.26	0.09	0.28	0.28	0.09	0.40	0.00	0.07	0.38	0.00
Sat Flow, veh/h	3510	3582	1533	3510	3526	1557	3291	3582	1598	3483	5106	1585
Grp Volume(v), veh/h	185	730	312	253	527	150	246	441	0	192	621	0
Grp Sat Flow(s),veh/h/ln	1755	1791	1533	1755	1763	1557	1646	1791	1598	1742	1702	1585
Q Serve(g_s), s	6.0	22.1	22.1	8.2	14.8	8.9	8.5	9.8	0.0	6.3	10.0	0.0
Cycle Q Clear(g_c), s	6.0	22.1	22.1	8.2	14.8	8.9	8.5	9.8	0.0	6.3	10.0	0.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	252	914	391	317	974	430	311	1437		252	1935	
V/C Ratio(X)	0.73	0.80	0.80	0.80	0.54	0.35	0.79	0.31		0.76	0.32	
Avail Cap(c_a), veh/h	390	1047	448	381	1021	451	423	1437		297	1935	
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	0.00	0.63	0.63	0.00
Uniform Delay (d), s/veh	52.8	40.4	40.4	51.7	35.7	33.6	51.4	23.7	0.0	52.8	25.5	0.0
Incr Delay (d2), s/veh	5.8	4.3	9.5	10.7	0.7	0.7	8.4	0.6	0.0	6.9	0.1	0.0
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(50%),veh/ln	2.8	10.2	9.3	4.1	6.4	3.5	3.9	4.2	0.0	3.0	4.1	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	58.6	44.8	49.9	62.4	36.4	34.3	59.8	24.3	0.0	59.7	25.6	0.0
LnGrp LOS	E	D	D	E	D	C	E	C		E	C	
Approach Vol, veh/h		1227			930			687	A		813	A
Approach Delay, s/veh		48.2			43.1			37.0			33.6	
Approach LOS		D			D			D			C	

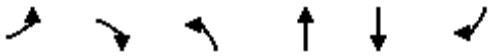
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.5	51.6	15.9	35.0	16.1	49.1	13.4	37.5
Change Period (Y+Rc), s	5.1	5.1	5.4	* 5.4	5.1	5.1	5.1	5.4
Max Green Setting (Gmax), s	9.9	38.9	12.6	* 34	14.9	33.9	12.9	33.6
Max Q Clear Time (g_c+I1), s	8.3	11.8	10.2	24.1	10.5	12.0	8.0	16.8
Green Ext Time (p_c), s	0.1	4.3	0.3	5.5	0.5	5.9	0.4	5.2

Intersection Summary	
HCM 6th Ctrl Delay	41.6
HCM 6th LOS	D

Notes

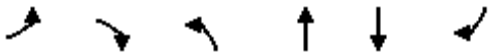
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	7	22	0	674	935	2
Future Volume (vph)	7	22	0	674	935	2
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	0.95	0.95	0.95	0.95
Frt	0.899					
Flt Protected	0.988					
Satd. Flow (prot)	1655	0	0	3539	3539	0
Flt Permitted	0.988					
Satd. Flow (perm)	1655	0	0	3539	3539	0
Link Speed (mph)	30			30	30	
Link Distance (ft)	355			103	2254	
Travel Time (s)	8.1			2.3	51.2	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	8	24	0	733	1016	2
Shared Lane Traffic (%)						
Lane Group Flow (vph)	32	0	0	733	1018	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			24	24	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop			Free	Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 35.9%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	7	22	0	674	935	2
Future Volume (Veh/h)	7	22	0	674	935	2
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	8	24	0	733	1016	2
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)				632		
pX, platoon unblocked	0.91					
vC, conflicting volume	1384	509	1018			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1233	509	1018			
tC, single (s)	6.8	6.9	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	95	95	100			
cM capacity (veh/h)	155	509	677			

Direction, Lane #	EB 1	NB 1	NB 2	SB 1	SB 2
Volume Total	32	244	489	677	341
Volume Left	8	0	0	0	0
Volume Right	24	0	0	0	2
cSH	324	677	1700	1700	1700
Volume to Capacity	0.10	0.00	0.29	0.40	0.20
Queue Length 95th (ft)	8	0	0	0	0
Control Delay (s)	17.3	0.0	0.0	0.0	0.0
Lane LOS	C				
Approach Delay (s)	17.3	0.0		0.0	
Approach LOS	C				

Intersection Summary			
Average Delay	0.3		
Intersection Capacity Utilization	35.9%	ICU Level of Service	A
Analysis Period (min)	15		

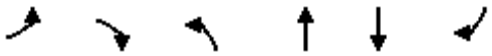
Intersection	
Int Delay, s/veh	0.3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	7	22	0	674	935	2
Future Vol, veh/h	7	22	0	674	935	2
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	-	-	-	-	-
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	8	24	0	733	1016	2

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1384	509	1018	0	-	0
Stage 1	1017	-	-	-	-	-
Stage 2	367	-	-	-	-	-
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	135	509	677	-	-	-
Stage 1	310	-	-	-	-	-
Stage 2	671	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	135	509	677	-	-	-
Mov Cap-2 Maneuver	135	-	-	-	-	-
Stage 1	310	-	-	-	-	-
Stage 2	671	-	-	-	-	-

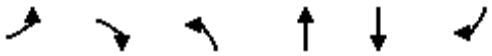
Approach	EB	NB	SB
HCM Control Delay, s	18.2	0	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	677	-	305	-	-
HCM Lane V/C Ratio	-	-	0.103	-	-
HCM Control Delay (s)	0	-	18.2	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0	-	0.3	-	-



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	0	7	3	674	957	0
Future Volume (vph)	0	7	3	674	957	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	0.95	0.95	0.95	1.00
Frt	0.865					
Flt Protected						
Satd. Flow (prot)	1611	0	0	3539	3539	0
Flt Permitted						
Satd. Flow (perm)	1611	0	0	3539	3539	0
Link Speed (mph)	30			30	30	
Link Distance (ft)	128			529	103	
Travel Time (s)	2.9			12.0	2.3	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	8	3	733	1040	0
Shared Lane Traffic (%)						
Lane Group Flow (vph)	8	0	0	736	1040	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop			Free	Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 36.5%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	0	7	3	674	957	0
Future Volume (Veh/h)	0	7	3	674	957	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	8	3	733	1040	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)				529		
pX, platoon unblocked	0.89					
vC, conflicting volume	1412	520	1040			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1224	520	1040			
tC, single (s)	6.8	6.9	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	98	100			
cM capacity (veh/h)	152	501	664			

Direction, Lane #	EB 1	NB 1	NB 2	SB 1	SB 2
Volume Total	8	247	489	520	520
Volume Left	0	3	0	0	0
Volume Right	8	0	0	0	0
cSH	501	664	1700	1700	1700
Volume to Capacity	0.02	0.00	0.29	0.31	0.31
Queue Length 95th (ft)	1	0	0	0	0
Control Delay (s)	12.3	0.2	0.0	0.0	0.0
Lane LOS	B	A			
Approach Delay (s)	12.3	0.1		0.0	
Approach LOS	B				

Intersection Summary			
Average Delay	0.1		
Intersection Capacity Utilization	36.5%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection	
Int Delay, s/veh	0.1

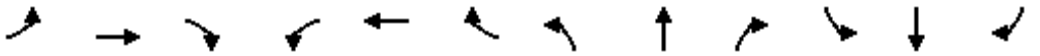
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	7	3	674	957	0
Future Vol, veh/h	0	7	3	674	957	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	8	3	733	1040	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1413	520	1040	0	-	0
Stage 1	1040	-	-	-	-	-
Stage 2	373	-	-	-	-	-
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	129	501	664	-	-	0
Stage 1	302	-	-	-	-	0
Stage 2	666	-	-	-	-	0
Platoon blocked, %				-	-	
Mov Cap-1 Maneuver	128	501	664	-	-	-
Mov Cap-2 Maneuver	128	-	-	-	-	-
Stage 1	300	-	-	-	-	-
Stage 2	666	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	12.3	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT
Capacity (veh/h)	664	-	501	-
HCM Lane V/C Ratio	0.005	-	0.015	-
HCM Control Delay (s)	10.4	0	12.3	-
HCM Lane LOS	B	A	B	-
HCM 95th %tile Q(veh)	0	-	0	-

Appendix E - Cumulative Traffic Conditions Synchro Report



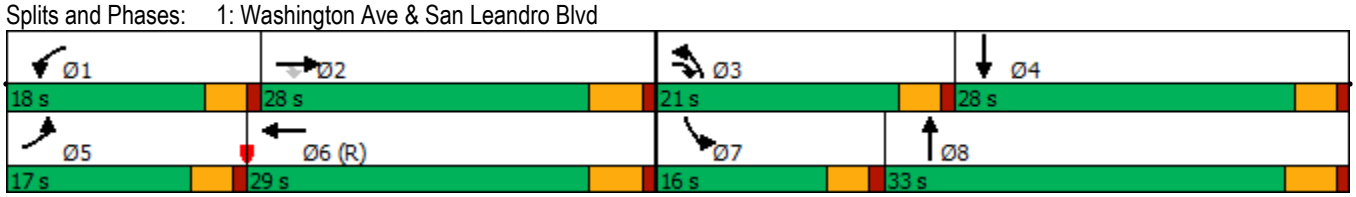
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	9	505	348	95	889	94	782	337	107	63	310	16
Future Volume (vph)	9	505	348	95	889	94	782	337	107	63	310	16
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	140		150	90		0	120		0	80		0
Storage Lanes	1		1	1		0	2		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95	0.95	0.97	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor	1.00		0.99	1.00	1.00		1.00	1.00		1.00	1.00	
Frt			0.850		0.986			0.964			0.993	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1626	3539	1568	1703	3477	0	3400	3341	0	1687	3516	0
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1621	3539	1545	1701	3477	0	3397	3341	0	1685	3516	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			246		11			45			5	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		977			1135			2886			891	
Travel Time (s)		22.2			25.8			65.6			20.3	
Confl. Peds. (#/hr)	16		2	2		16	1		3	3		1
Confl. Bikes (#/hr)			2						2			
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Heavy Vehicles (%)	11%	2%	3%	6%	2%	3%	3%	4%	3%	7%	2%	0%
Adj. Flow (vph)	11	601	414	113	1058	112	931	401	127	75	369	19
Shared Lane Traffic (%)												
Lane Group Flow (vph)	11	601	414	113	1170	0	931	528	0	75	388	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway 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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2		1	2		1	2	
Detector Template	Left	Thru	Right	Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100	20	20	100		20	100		20	100	
Trailing Detector (ft)	0	0	0	0	0		0	0		0	0	
Detector 1 Position(ft)	0	0	0	0	0		0	0		0	0	
Detector 1 Size(ft)	20	6	20	20	6		20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												

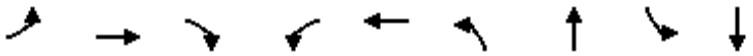
Lanes, Volumes, Timings
1: Washington Ave & San Leandro Blvd 05/10/2022

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Prot	NA	pm+ov	Prot	NA		Prot	NA		Prot	NA	
Protected Phases	5	2	3	1	6		3	8		7	4	
Permitted Phases			2									
Detector Phase	5	2	3	1	6		3	8		7	4	
Switch Phase												
Minimum Initial (s)	4.0	4.0	4.0	4.0	4.0		4.0	4.0		4.0	4.0	
Minimum Split (s)	8.0	34.9	8.0	8.0	32.9		8.0	33.6		8.0	34.0	
Total Split (s)	17.0	28.0	21.0	18.0	29.0		21.0	33.0		16.0	28.0	
Total Split (%)	17.9%	29.5%	22.1%	18.9%	30.5%		22.1%	34.7%		16.8%	29.5%	
Maximum Green (s)	13.0	23.1	17.0	14.0	24.1		17.0	28.4		12.0	24.0	
Yellow Time (s)	3.0	3.9	3.0	3.0	3.9		3.0	3.6		3.0	3.0	
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Lead/Lag	Lead	Lag	Lead	Lead	Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes		Yes	Yes		Yes	Yes	
Vehicle Extension (s)	2.0	3.0	2.0	2.0	3.0		2.0	3.0		2.0	3.0	
Minimum Gap (s)	2.0	2.0	2.0	2.0	2.0		2.0	2.0		2.0	2.0	
Time Before Reduce (s)	3.0	13.0	7.0	5.0	12.0		7.0	9.0		6.0	9.0	
Time To Reduce (s)	4.0	15.0	8.0	6.0	13.0		8.0	10.0		7.0	11.0	
Recall Mode	None	Min	None	None	C-Min		None	None		None	None	
Walk Time (s)		7.0			7.0			7.0			7.0	
Flash Dont Walk (s)		23.0			21.0			22.0			23.0	
Pedestrian Calls (#/hr)		5			5			5			5	
Act Effct Green (s)	5.3	34.3	52.2	10.4	46.5		17.0	26.1		8.5	16.5	
Actuated g/C Ratio	0.06	0.36	0.55	0.11	0.49		0.18	0.27		0.09	0.17	
v/c Ratio	0.12	0.47	0.43	0.61	0.69		1.53	0.56		0.50	0.63	
Control Delay	45.1	26.6	6.6	53.7	23.3		277.5	29.7		51.8	40.2	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	45.1	26.6	6.6	53.7	23.3		277.5	29.7		51.8	40.2	
LOS	D	C	A	D	C		F	C		D	D	
Approach Delay		18.7			26.0			187.8			42.1	
Approach LOS		B			C			F			D	

Intersection Summary			
Area Type:	Other		
Cycle Length: 95			
Actuated Cycle Length: 95			
Offset: 39 (41%), Referenced to phase 6:WBT, Start of Green			
Natural Cycle: 125			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 1.53			
Intersection Signal Delay: 81.8		Intersection LOS: F	
Intersection Capacity Utilization 77.1%		ICU Level of Service D	
Analysis Period (min) 15			

Splits and Phases: 1: Washington Ave & San Leandro Blvd



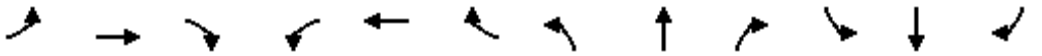


Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	11	601	414	113	1170	931	528	75	388
v/c Ratio	0.12	0.47	0.43	0.61	0.69	1.53	0.56	0.50	0.63
Control Delay	45.1	26.6	6.6	53.7	23.3	277.5	29.7	51.8	40.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	45.1	26.6	6.6	53.7	23.3	277.5	29.7	51.8	40.2
Queue Length 50th (ft)	6	143	42	66	252	~408	136	44	115
Queue Length 95th (ft)	22	215	111	109	#472	#480	161	80	134
Internal Link Dist (ft)		897			1055		2806		811
Turn Bay Length (ft)	140		150	90		120		80	
Base Capacity (vph)	222	1276	963	250	1707	608	1054	213	891
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.05	0.47	0.43	0.45	0.69	1.53	0.50	0.35	0.44

Intersection Summary

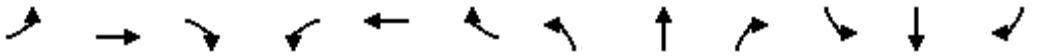
~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	9	505	348	95	889	94	782	337	107	63	310	16
Future Volume (vph)	9	505	348	95	889	94	782	337	107	63	310	16
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95		0.97	0.95		1.00	0.95	
Frpb, ped/bikes	1.00	1.00	0.99	1.00	1.00		1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00	
Frt	1.00	1.00	0.85	1.00	0.99		1.00	0.96		1.00	0.99	
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1626	3539	1553	1703	3476		3400	3340		1687	3514	
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1626	3539	1553	1703	3476		3400	3340		1687	3514	
Peak-hour factor, PHF	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Adj. Flow (vph)	11	601	414	113	1058	112	931	401	127	75	369	19
RTOR Reduction (vph)	0	0	115	0	6	0	0	33	0	0	4	0
Lane Group Flow (vph)	11	601	299	113	1164	0	931	495	0	75	384	0
Confl. Peds. (#/hr)	16		2	2		16	1		3	3		1
Confl. Bikes (#/hr)			2						2			
Heavy Vehicles (%)	11%	2%	3%	6%	2%	3%	3%	4%	3%	7%	2%	0%
Turn Type	Prot	NA	pm+ov	Prot	NA		Prot	NA		Prot	NA	
Protected Phases	5	2	3	1	6		3	8		7	4	
Permitted Phases			2									
Actuated Green, G (s)	1.3	33.5	50.5	10.4	42.6		17.0	26.1		7.5	17.2	
Effective Green, g (s)	1.3	33.5	50.5	10.4	42.6		17.0	26.1		7.5	17.2	
Actuated g/C Ratio	0.01	0.35	0.53	0.11	0.45		0.18	0.27		0.08	0.18	
Clearance Time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Vehicle Extension (s)	2.0	3.0	2.0	2.0	3.0		2.0	3.0		2.0	3.0	
Lane Grp Cap (vph)	22	1247	825	186	1558		608	917		133	636	
v/s Ratio Prot	0.01	0.17	0.06	c0.07	c0.33		c0.27	0.15		0.04	c0.11	
v/s Ratio Perm			0.13									
v/c Ratio	0.50	0.48	0.36	0.61	0.75		1.53	0.54		0.56	0.60	
Uniform Delay, d1	46.5	24.0	12.9	40.4	21.7		39.0	29.3		42.2	35.8	
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	6.4	0.3	0.1	3.8	3.3		247.3	0.7		3.2	1.6	
Delay (s)	52.9	24.3	13.0	44.2	25.0		286.3	30.0		45.4	37.4	
Level of Service	D	C	B	D	C		F	C		D	D	
Approach Delay (s)		20.0			26.7			193.6			38.7	
Approach LOS		C			C			F			D	

Intersection Summary			
HCM 2000 Control Delay	83.9	HCM 2000 Level of Service	F
HCM 2000 Volume to Capacity ratio	0.90		
Actuated Cycle Length (s)	95.0	Sum of lost time (s)	17.5
Intersection Capacity Utilization	77.1%	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)	9	505	348	95	889	94	782	337	107	63	310	16
Future Volume (veh/h)	9	505	348	95	889	94	782	337	107	63	310	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	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	1737	1870	1856	1811	1870	1856	1856	1841	1856	1796	1870	1900
Adj Flow Rate, veh/h	11	601	414	113	1058	112	931	401	0	75	369	0
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Percent Heavy Veh, %	11	2	3	6	2	3	3	4	3	7	2	0
Cap, veh/h	18	859	649	141	1013	107	613	950		95	527	
Arrive On Green	0.01	0.24	0.24	0.08	0.31	0.31	0.18	0.27	0.00	0.06	0.15	0.00
Sat Flow, veh/h	1654	3554	1520	1725	3237	342	3428	3589	0	1711	3647	0
Grp Volume(v), veh/h	11	601	414	113	580	590	931	401	0	75	369	0
Grp Sat Flow(s),veh/h/ln	1654	1777	1520	1725	1777	1802	1714	1749	0	1711	1777	0
Q Serve(g_s), s	0.6	14.7	20.6	6.1	29.7	29.7	17.0	9.0	0.0	4.1	9.4	0.0
Cycle Q Clear(g_c), s	0.6	14.7	20.6	6.1	29.7	29.7	17.0	9.0	0.0	4.1	9.4	0.0
Prop In Lane	1.00		1.00	1.00		0.19	1.00		0.00	1.00		0.00
Lane Grp Cap(c), veh/h	18	859	649	141	556	564	613	950		95	527	
V/C Ratio(X)	0.63	0.70	0.64	0.80	1.04	1.05	1.52	0.42		0.79	0.70	
Avail Cap(c_a), veh/h	226	864	651	254	556	564	613	1046		216	898	
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	0.45	0.45	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	46.8	32.9	21.9	42.9	32.6	32.6	39.0	28.5	0.0	44.3	38.4	0.0
Incr Delay (d2), s/veh	12.8	2.5	2.1	4.0	50.1	50.3	236.7	0.1	0.0	5.3	1.7	0.0
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(50%),veh/ln	0.3	6.5	7.4	2.7	20.1	20.4	27.2	3.7	0.0	1.9	4.2	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	59.7	35.4	24.0	46.8	82.7	82.9	275.7	28.6	0.0	49.6	40.1	0.0
LnGrp LOS	E	D	C	D	F	F	F	C		D	D	
Approach Vol, veh/h		1026			1283			1332	A		444	A
Approach Delay, s/veh		31.0			79.7			201.3			41.7	
Approach LOS		C			E			F			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.8	27.9	21.0	18.7	5.0	34.6	9.3	30.4
Change Period (Y+Rc), s	4.0	4.9	4.0	* 4.6	4.0	4.9	4.0	4.6
Max Green Setting (Gmax), s	14.0	23.1	17.0	* 24	13.0	24.1	12.0	28.4
Max Q Clear Time (g_c+I1), s	8.1	22.6	19.0	11.4	2.6	31.7	6.1	11.0
Green Ext Time (p_c), s	0.1	0.3	0.0	1.9	0.0	0.0	0.0	2.4

Intersection Summary	
HCM 6th Ctrl Delay	103.0
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.

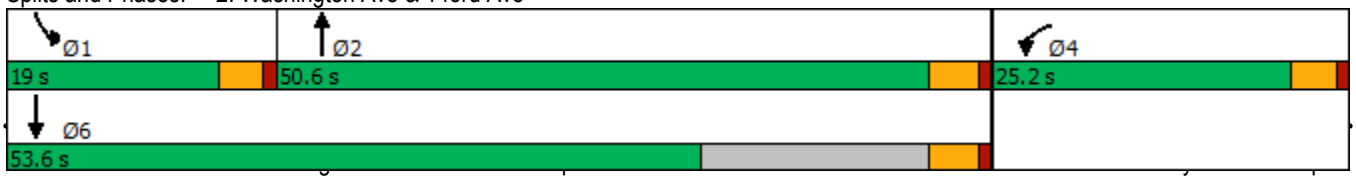
Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	276	169	1017	258	64	580
Future Volume (vph)	276	169	1017	258	64	580
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	90		0	100	
Storage Lanes	2	1		0	1	
Taper Length (ft)	25				25	
Lane Util. Factor	0.97	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	0.99		1.00		1.00	
Frt	0.943		0.970			
Flt Protected	0.970				0.950	
Satd. Flow (prot)	3287	0	3384	0	1719	3406
Flt Permitted	0.970				0.950	
Satd. Flow (perm)	3287	0	3384	0	1718	3406
Right Turn on Red		Yes		Yes		
Satd. Flow (RTOR)	136		46			
Link Speed (mph)	30		30			30
Link Distance (ft)	1330		895			2886
Travel Time (s)	30.2		20.3			65.6
Confl. Peds. (#/hr)		5		1	1	
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82
Heavy Vehicles (%)	1%	2%	3%	3%	5%	6%
Adj. Flow (vph)	337	206	1240	315	78	707
Shared Lane Traffic (%)						
Lane Group Flow (vph)	543	0	1555	0	78	707
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	24		24			24
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Number of Detectors	1		2		1	2
Detector Template	Left		Thru		Left	Thru
Leading Detector (ft)	20		100		20	100
Trailing Detector (ft)	0		0		0	0
Detector 1 Position(ft)	0		0		0	0
Detector 1 Size(ft)	20		6		20	6
Detector 1 Type	Cl+Ex		Cl+Ex		Cl+Ex	Cl+Ex
Detector 1 Channel						
Detector 1 Extend (s)	0.0		0.0		0.0	0.0
Detector 1 Queue (s)	0.0		0.0		0.0	0.0
Detector 1 Delay (s)	0.0		0.0		0.0	0.0
Detector 2 Position(ft)			94			94
Detector 2 Size(ft)			6			6
Detector 2 Type			Cl+Ex			Cl+Ex
Detector 2 Channel						
Detector 2 Extend (s)			0.0			0.0

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Turn Type	Prot		NA		Prot	NA
Protected Phases	4		2		1	6
Permitted Phases						
Detector Phase	4		2		1	6
Switch Phase						
Minimum Initial (s)	6.0		6.0		4.0	6.0
Minimum Split (s)	26.2		21.6		8.0	10.6
Total Split (s)	25.2		50.6		19.0	53.6
Total Split (%)	26.6%		53.4%		20.0%	56.5%
Maximum Green (s)	21.0		46.0		15.0	49.0
Yellow Time (s)	3.2		3.6		3.0	3.6
All-Red Time (s)	1.0		1.0		1.0	1.0
Lost Time Adjust (s)	0.0		0.0		0.0	0.0
Total Lost Time (s)	4.2		4.6		4.0	4.6
Lead/Lag			Lag		Lead	
Lead-Lag Optimize?			Yes		Yes	
Vehicle Extension (s)	2.0		2.0		2.0	2.0
Minimum Gap (s)	2.0		3.0		2.0	3.0
Time Before Reduce (s)	7.0		22.0		5.0	22.0
Time To Reduce (s)	9.0		30.0		6.0	30.0
Recall Mode	None		Min		None	Min
Walk Time (s)	7.0		7.0			
Flash Dont Walk (s)	15.0		10.0			
Pedestrian Calls (#/hr)	5		5			
Act Effct Green (s)	15.0		41.6		8.2	51.0
Actuated g/C Ratio	0.20		0.55		0.11	0.67
v/c Ratio	0.71		0.83		0.42	0.31
Control Delay	28.4		20.3		43.0	5.4
Queue Delay	0.0		0.0		0.0	0.0
Total Delay	28.4		20.3		43.0	5.4
LOS	C		C		D	A
Approach Delay	28.4		20.3			9.2
Approach LOS	C		C			A

Intersection Summary			
Area Type:	Other		
Cycle Length: 94.8			
Actuated Cycle Length: 75.6			
Natural Cycle: 80			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.83			
Intersection Signal Delay: 18.8		Intersection LOS: B	
Intersection Capacity Utilization 64.7%		ICU Level of Service C	
Analysis Period (min) 15			

Splits and Phases: 2: Washington Ave & 143rd Ave



Lane Group	WBL	NBT	SBL	SBT
Lane Group Flow (vph)	543	1555	78	707
v/c Ratio	0.71	0.83	0.42	0.31
Control Delay	28.4	20.3	43.0	5.4
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	28.4	20.3	43.0	5.4
Queue Length 50th (ft)	102	301	38	57
Queue Length 95th (ft)	142	444	78	95
Internal Link Dist (ft)	1250	815		2806
Turn Bay Length (ft)			100	
Base Capacity (vph)	1095	2181	371	2797
Starvation Cap Reductn	0	0	0	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.50	0.71	0.21	0.25

Intersection Summary

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	276	169	1017	258	64	580
Future Volume (vph)	276	169	1017	258	64	580
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.2		4.6		4.0	4.6
Lane Util. Factor	0.97		0.95		1.00	0.95
Frpb, ped/bikes	0.99		1.00		1.00	1.00
Flpb, ped/bikes	1.00		1.00		1.00	1.00
Frt	0.94		0.97		1.00	1.00
Flt Protected	0.97		1.00		0.95	1.00
Satd. Flow (prot)	3290		3383		1719	3406
Flt Permitted	0.97		1.00		0.95	1.00
Satd. Flow (perm)	3290		3383		1719	3406
Peak-hour factor, PHF	0.82	0.82	0.82	0.82	0.82	0.82
Adj. Flow (vph)	337	206	1240	315	78	707
RTOR Reduction (vph)	109	0	21	0	0	0
Lane Group Flow (vph)	434	0	1534	0	78	707
Confl. Peds. (#/hr)		5		1	1	
Heavy Vehicles (%)	1%	2%	3%	3%	5%	6%
Turn Type	Prot		NA		Prot	NA
Protected Phases	4		2		1	6
Permitted Phases						
Actuated Green, G (s)	15.0		41.6		6.5	52.1
Effective Green, g (s)	15.0		41.6		6.5	52.1
Actuated g/C Ratio	0.20		0.55		0.09	0.69
Clearance Time (s)	4.2		4.6		4.0	4.6
Vehicle Extension (s)	2.0		2.0		2.0	2.0
Lane Grp Cap (vph)	650		1854		147	2337
v/s Ratio Prot	c0.13		c0.45		c0.05	0.21
v/s Ratio Perm						
v/c Ratio	0.67		0.83		0.53	0.30
Uniform Delay, d1	28.1		14.2		33.2	4.7
Progression Factor	1.00		1.00		1.00	1.00
Incremental Delay, d2	2.0		3.0		1.8	0.0
Delay (s)	30.2		17.2		35.1	4.7
Level of Service	C		B		D	A
Approach Delay (s)	30.2		17.2			7.8
Approach LOS	C		B			A

Intersection Summary			
HCM 2000 Control Delay	17.1	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.76		
Actuated Cycle Length (s)	75.9	Sum of lost time (s)	12.8
Intersection Capacity Utilization	64.7%	ICU Level of Service	C
Analysis Period (min)	15		

c Critical Lane Group

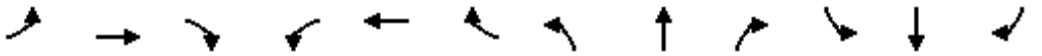
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	276	169	1017	258	64	580
Future Volume (veh/h)	276	169	1017	258	64	580
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1885	1870	1856	1856	1826	1811
Adj Flow Rate, veh/h	272	0	1240	315	78	707
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82
Percent Heavy Veh, %	1	2	3	3	5	6
Cap, veh/h	327		1528	382	99	2309
Arrive On Green	0.18	0.00	0.55	0.55	0.06	0.67
Sat Flow, veh/h	1795	1585	2886	699	1739	3532
Grp Volume(v), veh/h	272	0	775	780	78	707
Grp Sat Flow(s),veh/h/ln	1795	1585	1763	1729	1739	1721
Q Serve(g_s), s	8.8	0.0	21.3	22.3	2.7	5.1
Cycle Q Clear(g_c), s	8.8	0.0	21.3	22.3	2.7	5.1
Prop In Lane	1.00	1.00		0.40	1.00	
Lane Grp Cap(c), veh/h	327		964	946	99	2309
V/C Ratio(X)	0.83		0.80	0.82	0.79	0.31
Avail Cap(c_a), veh/h	629		1352	1327	435	2812
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	23.6	0.0	11.0	11.2	27.9	4.1
Incr Delay (d2), s/veh	2.1	0.0	1.6	2.1	5.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.6	0.0	6.9	7.2	1.2	1.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	25.7	0.0	12.6	13.3	33.0	4.1
LnGrp LOS	C		B	B	C	A
Approach Vol, veh/h	272	A	1555			785
Approach Delay, s/veh	25.7		12.9			7.0
Approach LOS	C		B			A

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	7.4	37.4		15.1		44.8
Change Period (Y+Rc), s	4.0	4.6		* 4.2		4.6
Max Green Setting (Gmax), s	15.0	46.0		* 21		49.0
Max Q Clear Time (g_c+I1), s	4.7	24.3		10.8		7.1
Green Ext Time (p_c), s	0.1	8.5		0.3		3.7

Intersection Summary	
HCM 6th Ctrl Delay	12.5
HCM 6th LOS	B

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



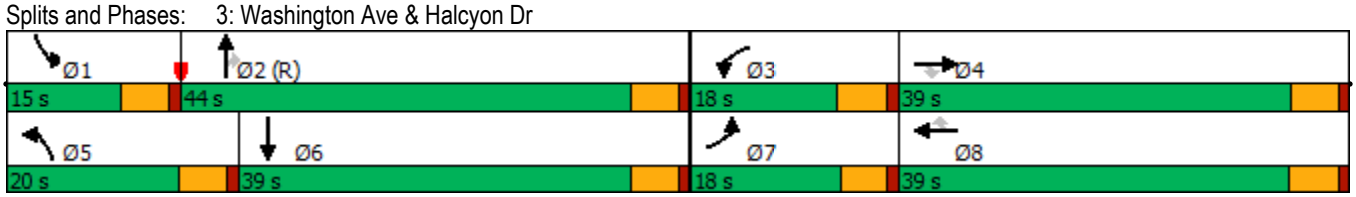
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	204	780	144	231	536	131	256	761	201	447	885	199
Future Volume (vph)	204	780	144	231	536	131	256	761	201	447	885	199
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	140		170	225		25	145		225	195		100
Storage Lanes	2		1	2		1	2		1	2		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.91	1.00
Ped Bike Factor	0.99		0.97	1.00		0.97	1.00		0.97	0.99		0.99
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3335	3539	1524	3467	3471	1417	3367	3438	1583	3273	4988	1553
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3311	3539	1482	3455	3471	1381	3365	3438	1529	3234	4988	1533
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			120			118			221			169
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		465			456			1136			1014	
Travel Time (s)		10.6			10.4			25.8			23.0	
Confl. Peds. (#/hr)	8		9	9		8	2		21	21		2
Confl. Bikes (#/hr)			6			5						
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles (%)	5%	2%	6%	1%	4%	14%	4%	5%	2%	7%	4%	4%
Adj. Flow (vph)	224	857	158	254	589	144	281	836	221	491	973	219
Shared Lane Traffic (%)												
Lane Group Flow (vph)	224	857	158	254	589	144	281	836	221	491	973	219
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		24			24			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane					Yes							
Headway 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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2	1	1	2	1	1	2	1
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Leading Detector (ft)	20	100	20	20	100	20	20	100	20	20	100	20
Trailing Detector (ft)	0	0	0	0	0	0	0	0	0	0	0	0
Detector 1 Position(ft)	0	0	0	0	0	0	0	0	0	0	0	0
Detector 1 Size(ft)	20	6	20	20	6	20	20	6	20	20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												

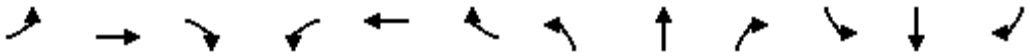
Lanes, Volumes, Timings
3: Washington Ave & Halcyon Dr 05/10/2022

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Free
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			Free
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	
Switch Phase												
Minimum Initial (s)	8.0	12.0	12.0	4.0	8.0	8.0	4.0	9.0	9.0	5.0	9.0	
Minimum Split (s)	13.1	33.1	33.1	9.4	33.4	33.4	9.1	37.1	37.1	10.1	35.1	
Total Split (s)	18.0	39.0	39.0	18.0	39.0	39.0	20.0	44.0	44.0	15.0	39.0	
Total Split (%)	15.5%	33.6%	33.6%	15.5%	33.6%	33.6%	17.2%	37.9%	37.9%	12.9%	33.6%	
Maximum Green (s)	12.9	33.9	33.9	12.6	33.6	33.6	14.9	38.9	38.9	9.9	33.9	
Yellow Time (s)	4.1	4.1	4.1	4.4	4.4	4.4	4.1	4.1	4.1	4.1	4.1	
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Minimum Gap (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Time Before Reduce (s)	4.0	7.0	7.0	3.0	6.0	6.0	4.0	5.0	5.0	5.0	7.0	
Time To Reduce (s)	5.0	9.0	9.0	4.0	8.0	8.0	5.0	7.0	7.0	7.0	10.0	
Recall Mode	None	None	None	None	None	None	None	C-Min	C-Min	None	Min	
Walk Time (s)		6.0	6.0		6.0	6.0		6.0	6.0		6.0	
Flash Dont Walk (s)		22.0	22.0		22.0	22.0		26.0	26.0		24.0	
Pedestrian Calls (#/hr)		5	5		5	5		5	5		5	
Act Effct Green (s)	12.5	32.7	32.7	12.8	32.9	32.9	14.1	34.9	34.9	14.9	35.7	116.0
Actuated g/C Ratio	0.11	0.28	0.28	0.11	0.28	0.28	0.12	0.30	0.30	0.13	0.31	1.00
v/c Ratio	0.62	0.86	0.31	0.67	0.60	0.30	0.69	0.81	0.36	1.17	0.63	0.14
Control Delay	57.5	49.2	11.2	58.7	38.6	10.3	57.9	43.9	5.3	143.8	37.4	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	57.5	49.2	11.2	58.7	38.6	10.3	57.9	43.9	5.3	143.8	37.4	0.2
LOS	E	D	B	E	D	B	E	D	A	F	D	A
Approach Delay		45.9			39.6			40.5			63.6	
Approach LOS		D			D			D			E	

Intersection Summary			
Area Type:	Other		
Cycle Length: 116			
Actuated Cycle Length: 116			
Offset: 98 (84%), Referenced to phase 2:NBT, Start of Green			
Natural Cycle: 105			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 1.17			
Intersection Signal Delay: 49.0		Intersection LOS: D	
Intersection Capacity Utilization 85.3%		ICU Level of Service E	
Analysis Period (min) 15			

Splits and Phases: 3: Washington Ave & Halcyon Dr



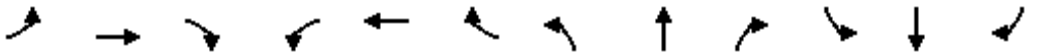


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	224	857	158	254	589	144	281	836	221	491	973	219
v/c Ratio	0.62	0.86	0.31	0.67	0.60	0.30	0.69	0.81	0.36	1.17	0.63	0.14
Control Delay	57.5	49.2	11.2	58.7	38.6	10.3	57.9	43.9	5.3	143.8	37.4	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	57.5	49.2	11.2	58.7	38.6	10.3	57.9	43.9	5.3	143.8	37.4	0.2
Queue Length 50th (ft)	82	312	20	93	194	14	104	297	0	~281	242	0
Queue Length 95th (ft)	125	394	74	140	257	65	151	362	53	#389	283	0
Internal Link Dist (ft)		385			376			1056			934	
Turn Bay Length (ft)	140		170	225		25	145		225	195		100
Base Capacity (vph)	376	1038	519	391	1014	486	432	1152	659	420	1557	1533
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.60	0.83	0.30	0.65	0.58	0.30	0.65	0.73	0.34	1.17	0.62	0.14

Intersection Summary

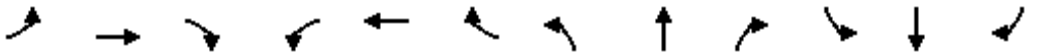
~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	204	780	144	231	536	131	256	761	201	447	885	199
Future Volume (vph)	204	780	144	231	536	131	256	761	201	447	885	199
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	4.0
Lane Util. Factor	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.91	1.00
Frpb, ped/bikes	1.00	1.00	0.97	1.00	1.00	0.97	1.00	1.00	0.97	1.00	1.00	0.99
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3335	3539	1482	3467	3471	1380	3367	3438	1529	3273	4988	1533
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3335	3539	1482	3467	3471	1380	3367	3438	1529	3273	4988	1533
Peak-hour factor, PHF	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Adj. Flow (vph)	224	857	158	254	589	144	281	836	221	491	973	219
RTOR Reduction (vph)	0	0	86	0	0	84	0	0	155	0	0	0
Lane Group Flow (vph)	224	857	72	254	589	60	281	836	66	491	973	219
Confl. Peds. (#/hr)	8		9	9		8	2		21	21		2
Confl. Bikes (#/hr)			6			5						
Heavy Vehicles (%)	5%	2%	6%	1%	4%	14%	4%	5%	2%	7%	4%	4%
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Free
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			Free
Actuated Green, G (s)	12.5	32.7	32.7	12.8	33.0	33.0	14.1	34.9	34.9	14.9	35.7	116.0
Effective Green, g (s)	12.5	32.7	32.7	12.8	33.0	33.0	14.1	34.9	34.9	14.9	35.7	116.0
Actuated g/C Ratio	0.11	0.28	0.28	0.11	0.28	0.28	0.12	0.30	0.30	0.13	0.31	1.00
Clearance Time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	
Vehicle Extension (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Lane Grp Cap (vph)	359	997	417	382	987	392	409	1034	460	420	1535	1533
v/s Ratio Prot	0.07	c0.24		c0.07	0.17		0.08	c0.24		c0.15	0.20	
v/s Ratio Perm			0.05			0.04			0.04			c0.14
v/c Ratio	0.62	0.86	0.17	0.66	0.60	0.15	0.69	0.81	0.14	1.17	0.63	0.14
Uniform Delay, d1	49.5	39.5	31.4	49.5	35.8	31.0	48.8	37.5	29.6	50.5	34.5	0.0
Progression 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
Incremental Delay, d2	3.8	7.8	0.3	4.8	1.1	0.2	5.1	6.8	0.7	98.9	1.0	0.2
Delay (s)	53.3	47.2	31.7	54.3	36.9	31.3	54.0	44.3	30.3	149.4	35.5	0.2
Level of Service	D	D	C	D	D	C	D	D	C	F	D	A
Approach Delay (s)		46.4			40.6			44.0			64.1	
Approach LOS		D			D			D			E	

Intersection Summary			
HCM 2000 Control Delay	50.4	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.86		
Actuated Cycle Length (s)	116.0	Sum of lost time (s)	20.7
Intersection Capacity Utilization	85.3%	ICU Level of Service	E
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)	204	780	144	231	536	131	256	761	201	447	885	199
Future Volume (veh/h)	204	780	144	231	536	131	256	761	201	447	885	199
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.97	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	1826	1870	1811	1885	1841	1693	1841	1826	1870	1796	1841	1841
Adj Flow Rate, veh/h	224	857	158	254	589	144	281	836	0	491	973	0
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	5	2	6	1	4	14	4	5	2	7	4	4
Cap, veh/h	287	982	413	318	996	398	348	1270		283	1755	
Arrive On Green	0.09	0.28	0.28	0.09	0.28	0.28	0.10	0.37	0.00	0.09	0.35	0.00
Sat Flow, veh/h	3374	3554	1494	3483	3497	1398	3401	3469	1585	3319	5025	1560
Grp Volume(v), veh/h	224	857	158	254	589	144	281	836	0	491	973	0
Grp Sat Flow(s),veh/h/ln	1687	1777	1494	1742	1749	1398	1700	1735	1585	1659	1675	1560
Q Serve(g_s), s	7.5	26.7	9.9	8.3	16.8	9.5	9.4	23.3	0.0	9.9	18.1	0.0
Cycle Q Clear(g_c), s	7.5	26.7	9.9	8.3	16.8	9.5	9.4	23.3	0.0	9.9	18.1	0.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	287	982	413	318	996	398	348	1270		283	1755	
V/C Ratio(X)	0.78	0.87	0.38	0.80	0.59	0.36	0.81	0.66		1.73	0.55	
Avail Cap(c_a), veh/h	375	1039	437	378	1013	405	437	1270		283	1755	
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	0.00	0.84	0.84	0.00
Uniform Delay (d), s/veh	52.0	40.0	34.0	51.7	35.7	33.1	51.0	30.7	0.0	53.0	30.5	0.0
Incr Delay (d2), s/veh	9.0	8.3	0.8	11.0	1.1	0.8	9.9	2.7	0.0	342.2	0.4	0.0
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(50%),veh/ln	3.6	12.7	3.7	4.1	7.3	3.3	4.5	10.1	0.0	17.6	7.3	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	61.0	48.4	34.8	62.7	36.8	33.8	60.9	33.4	0.0	395.3	30.9	0.0
LnGrp LOS	E	D	C	E	D	C	E	C		F	C	
Approach Vol, veh/h		1239			987			1117	A		1464	A
Approach Delay, s/veh		48.9			43.0			40.3			153.1	
Approach LOS		D			D			D			F	

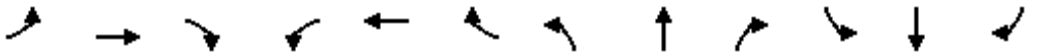
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.0	47.6	16.0	37.5	17.0	45.6	15.0	38.4
Change Period (Y+Rc), s	5.1	5.1	5.4	* 5.4	5.1	5.1	5.1	5.4
Max Green Setting (Gmax), s	9.9	38.9	12.6	* 34	14.9	33.9	12.9	33.6
Max Q Clear Time (g_c+I1), s	11.9	25.3	10.3	28.7	11.4	20.1	9.5	18.8
Green Ext Time (p_c), s	0.0	6.3	0.3	3.4	0.5	7.2	0.3	5.3

Intersection Summary	
HCM 6th Ctrl Delay	77.4
HCM 6th LOS	E

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	21	760	769	108	294	46	388	463	96	75	250	7
Future Volume (vph)	21	760	769	108	294	46	388	463	96	75	250	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	140		150	90		0	120		0	80		0
Storage Lanes	1		1	1		0	2		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95	0.95	0.97	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor	1.00		0.98	1.00	1.00		1.00	1.00		1.00	1.00	
Frt			0.850		0.980			0.974			0.996	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1517	3539	1583	1752	3470	0	3467	3440	0	1787	3526	0
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1512	3539	1559	1751	3470	0	3459	3440	0	1780	3526	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			334		18			26			3	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		977			885			2886			891	
Travel Time (s)		22.2			20.1			65.6			20.3	
Confl. Peds. (#/hr)	5		3	3		5	2		9	9		2
Confl. Bikes (#/hr)			1						1			
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Heavy Vehicles (%)	19%	2%	2%	3%	2%	0%	1%	2%	1%	1%	2%	0%
Adj. Flow (vph)	21	776	785	110	300	47	396	472	98	77	255	7
Shared Lane Traffic (%)												
Lane Group Flow (vph)	21	776	785	110	347	0	396	570	0	77	262	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway 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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2		1	2		1	2	
Detector Template	Left	Thru	Right	Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100	20	20	100		20	100		20	100	
Trailing Detector (ft)	0	0	0	0	0		0	0		0	0	
Detector 1 Position(ft)	0	0	0	0	0		0	0		0	0	
Detector 1 Size(ft)	20	6	20	20	6		20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												

Lanes, Volumes, Timings
1: Washington Ave & San Leandro Blvd

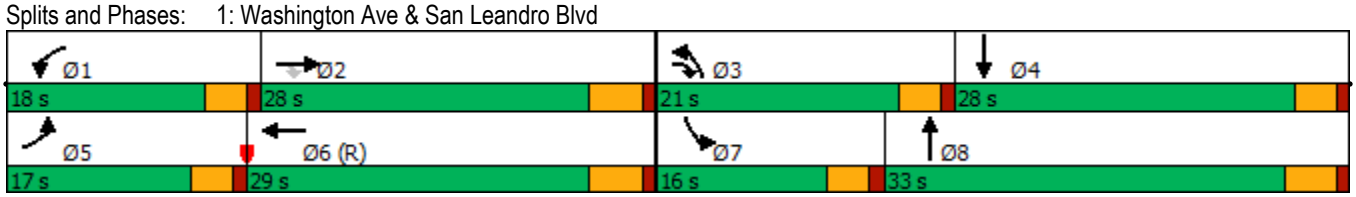
05/10/2022

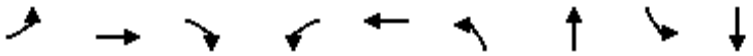
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Prot	NA	pm+ov	Prot	NA		Prot	NA		Prot	NA	
Protected Phases	5	2	3	1	6		3	8		7	4	
Permitted Phases			2									
Detector Phase	5	2	3	1	6		3	8		7	4	
Switch Phase												
Minimum Initial (s)	4.0	4.0	4.0	4.0	4.0		4.0	4.0		4.0	4.0	
Minimum Split (s)	8.0	34.9	8.0	8.0	32.9		8.0	33.6		8.0	34.0	
Total Split (s)	17.0	28.0	21.0	18.0	29.0		21.0	33.0		16.0	28.0	
Total Split (%)	17.9%	29.5%	22.1%	18.9%	30.5%		22.1%	34.7%		16.8%	29.5%	
Maximum Green (s)	13.0	23.1	17.0	14.0	24.1		17.0	28.4		12.0	24.0	
Yellow Time (s)	3.0	3.9	3.0	3.0	3.9		3.0	3.6		3.0	3.0	
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Lead/Lag	Lead	Lag	Lead	Lead	Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes		Yes	Yes		Yes	Yes	
Vehicle Extension (s)	2.0	3.0	2.0	2.0	3.0		2.0	3.0		2.0	3.0	
Minimum Gap (s)	2.0	2.0	2.0	2.0	2.0		2.0	2.0		2.0	2.0	
Time Before Reduce (s)	3.0	13.0	7.0	5.0	12.0		7.0	9.0		6.0	9.0	
Time To Reduce (s)	4.0	15.0	8.0	6.0	13.0		8.0	10.0		7.0	11.0	
Recall Mode	None	Min	None	None	C-Min		None	None		None	None	
Walk Time (s)		7.0			7.0			7.0			7.0	
Flash Dont Walk (s)		23.0			21.0			22.0			23.0	
Pedestrian Calls (#/hr)		5			5			5			5	
Act Effct Green (s)	5.9	39.9	56.2	10.2	47.5		15.4	22.8		8.5	14.6	
Actuated g/C Ratio	0.06	0.42	0.59	0.11	0.50		0.16	0.24		0.09	0.15	
v/c Ratio	0.22	0.52	0.74	0.59	0.20		0.70	0.68		0.48	0.48	
Control Delay	47.2	25.9	14.3	52.6	15.8		44.7	35.4		50.7	38.2	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	47.2	25.9	14.3	52.6	15.8		44.7	35.4		50.7	38.2	
LOS	D	C	B	D	B		D	D		D	D	
Approach Delay		20.4			24.7			39.2			41.0	
Approach LOS		C			C			D			D	

Intersection Summary

Area Type: Other
Cycle Length: 95
Actuated Cycle Length: 95
Offset: 39 (41%), Referenced to phase 6:WBT, Start of Green
Natural Cycle: 85
Control Type: Actuated-Coordinated
Maximum v/c Ratio: 0.74
Intersection Signal Delay: 28.5 Intersection LOS: C
Intersection Capacity Utilization 72.2% ICU Level of Service C
Analysis Period (min) 15

Splits and Phases: 1: Washington Ave & San Leandro Blvd

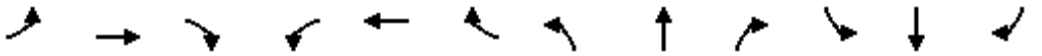




Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	21	776	785	110	347	396	570	77	262
v/c Ratio	0.22	0.52	0.74	0.59	0.20	0.70	0.68	0.48	0.48
Control Delay	47.2	25.9	14.3	52.6	15.8	44.7	35.4	50.7	38.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	47.2	25.9	14.3	52.6	15.8	44.7	35.4	50.7	38.2
Queue Length 50th (ft)	12	183	151	64	48	114	163	45	78
Queue Length 95th (ft)	35	#347	#359	114	117	164	197	87	101
Internal Link Dist (ft)		897			805		2806		811
Turn Bay Length (ft)	140		150	90		120		80	
Base Capacity (vph)	207	1485	1083	258	1744	620	1046	225	893
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.10	0.52	0.72	0.43	0.20	0.64	0.54	0.34	0.29

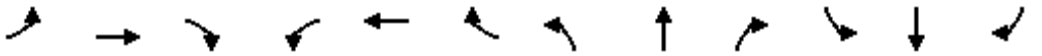
Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	21	760	769	108	294	46	388	463	96	75	250	7
Future Volume (vph)	21	760	769	108	294	46	388	463	96	75	250	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95		0.97	0.95		1.00	0.95	
Frpb, ped/bikes	1.00	1.00	0.99	1.00	1.00		1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00	
Frt	1.00	1.00	0.85	1.00	0.98		1.00	0.97		1.00	1.00	
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1517	3539	1566	1752	3469		3467	3441		1787	3526	
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1517	3539	1566	1752	3469		3467	3441		1787	3526	
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	21	776	785	110	300	47	396	472	98	77	255	7
RTOR Reduction (vph)	0	0	146	0	10	0	0	20	0	0	3	0
Lane Group Flow (vph)	21	776	639	110	337	0	396	550	0	77	259	0
Confl. Peds. (#/hr)	5		3	3		5	2		9	9		2
Confl. Bikes (#/hr)			1						1			
Heavy Vehicles (%)	19%	2%	2%	3%	2%	0%	1%	2%	1%	1%	2%	0%
Turn Type	Prot	NA	pm+ov	Prot	NA		Prot	NA		Prot	NA	
Protected Phases	5	2	3	1	6		3	8		7	4	
Permitted Phases			2									
Actuated Green, G (s)	2.9	38.2	53.6	9.0	44.3		15.4	22.8		7.5	15.5	
Effective Green, g (s)	2.9	38.2	53.6	9.0	44.3		15.4	22.8		7.5	15.5	
Actuated g/C Ratio	0.03	0.40	0.56	0.09	0.47		0.16	0.24		0.08	0.16	
Clearance Time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Vehicle Extension (s)	2.0	3.0	2.0	2.0	3.0		2.0	3.0		2.0	3.0	
Lane Grp Cap (vph)	46	1423	883	165	1617		562	825		141	575	
v/s Ratio Prot	0.01	0.22	c0.12	c0.06	0.10		0.11	c0.16		0.04	0.07	
v/s Ratio Perm			0.29									
v/c Ratio	0.46	0.55	0.72	0.67	0.21		0.70	0.67		0.55	0.45	
Uniform Delay, d1	45.3	21.7	15.3	41.6	15.0		37.6	32.7		42.1	35.9	
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	2.6	0.4	2.5	7.6	0.3		3.3	2.1		2.3	0.6	
Delay (s)	47.9	22.2	17.8	49.2	15.3		40.9	34.7		44.4	36.5	
Level of Service	D	C	B	D	B		D	C		D	D	
Approach Delay (s)		20.3			23.4			37.3			38.3	
Approach LOS		C			C			D			D	

Intersection Summary			
HCM 2000 Control Delay	27.5	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.73		
Actuated Cycle Length (s)	95.0	Sum of lost time (s)	17.5
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 (veh/h)	21	760	769	108	294	46	388	463	96	75	250	7
Future Volume (veh/h)	21	760	769	108	294	46	388	463	96	75	250	7
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	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	1618	1870	1870	1856	1870	1900	1885	1870	1885	1885	1870	1900
Adj Flow Rate, veh/h	21	776	785	110	300	47	396	472	0	77	255	0
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	19	2	2	3	2	0	1	2	1	1	2	0
Cap, veh/h	28	864	593	138	935	145	473	764		99	478	
Arrive On Green	0.02	0.24	0.24	0.08	0.30	0.30	0.14	0.22	0.00	0.06	0.13	0.00
Sat Flow, veh/h	1541	3554	1555	1767	3081	477	3483	3647	0	1795	3647	0
Grp Volume(v), veh/h	21	776	785	110	172	175	396	472	0	77	255	0
Grp Sat Flow(s),veh/h/ln	1541	1777	1555	1767	1777	1782	1742	1777	0	1795	1777	0
Q Serve(g_s), s	1.3	20.1	23.1	5.8	7.1	7.2	10.5	11.4	0.0	4.0	6.4	0.0
Cycle Q Clear(g_c), s	1.3	20.1	23.1	5.8	7.1	7.2	10.5	11.4	0.0	4.0	6.4	0.0
Prop In Lane	1.00		1.00	1.00		0.27	1.00		0.00	1.00		0.00
Lane Grp Cap(c), veh/h	28	864	593	138	539	541	473	764		99	478	
V/C Ratio(X)	0.76	0.90	1.32	0.79	0.32	0.32	0.84	0.62		0.77	0.53	
Avail Cap(c_a), veh/h	211	864	593	260	539	541	623	1062		227	898	
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	0.68	0.68	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	46.4	34.8	29.6	43.0	25.5	25.6	40.0	33.7	0.0	44.3	38.3	0.0
Incr Delay (d2), s/veh	14.6	12.2	156.8	3.9	1.5	1.6	4.1	0.6	0.0	4.8	0.9	0.0
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(50%),veh/ln	0.6	9.9	38.7	2.7	3.2	3.3	4.7	4.9	0.0	1.9	2.8	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	61.1	47.0	186.3	46.9	27.0	27.1	44.2	34.3	0.0	49.0	39.2	0.0
LnGrp LOS	E	D	F	D	C	C	D	C		D	D	
Approach Vol, veh/h		1582			457			868	A		332	A
Approach Delay, s/veh		116.3			31.9			38.8			41.5	
Approach LOS		F			C			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.4	28.0	16.9	17.4	5.7	33.7	9.3	25.0
Change Period (Y+Rc), s	4.0	4.9	4.0	* 4.6	4.0	4.9	4.0	4.6
Max Green Setting (Gmax), s	14.0	23.1	17.0	* 24	13.0	24.1	12.0	28.4
Max Q Clear Time (g_c+I1), s	7.8	25.1	12.5	8.4	3.3	9.2	6.0	13.4
Green Ext Time (p_c), s	0.1	0.0	0.4	1.4	0.0	1.7	0.0	2.7

Intersection Summary	
HCM 6th Ctrl Delay	76.0
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.

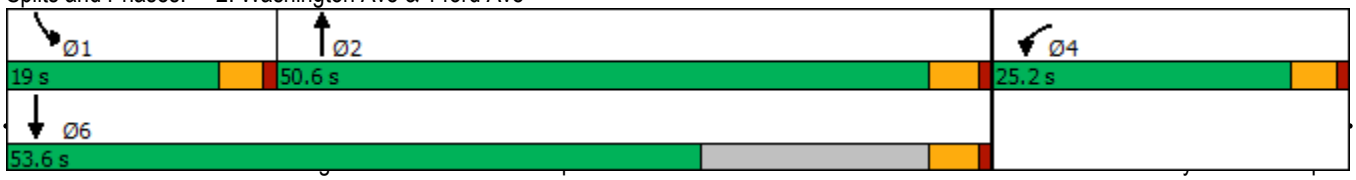
Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	159	90	869	214	109	1061
Future Volume (vph)	159	90	869	214	109	1061
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	90		0	100	
Storage Lanes	2	1		0	1	
Taper Length (ft)	25				25	
Lane Util. Factor	0.97	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	0.99		1.00		1.00	
Frt	0.946		0.970			
Flt Protected	0.969				0.950	
Satd. Flow (prot)	3295	0	3451	0	1719	3574
Flt Permitted	0.969				0.950	
Satd. Flow (perm)	3295	0	3451	0	1718	3574
Right Turn on Red		Yes		Yes		
Satd. Flow (RTOR)	97		44			
Link Speed (mph)	30		30			30
Link Distance (ft)	1330		895			2886
Travel Time (s)	30.2		20.3			65.6
Confl. Peds. (#/hr)		1		1	1	
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles (%)	1%	3%	1%	1%	5%	1%
Adj. Flow (vph)	171	97	934	230	117	1141
Shared Lane Traffic (%)						
Lane Group Flow (vph)	268	0	1164	0	117	1141
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	24		24			24
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Number of Detectors	1		2		1	2
Detector Template	Left		Thru		Left	Thru
Leading Detector (ft)	20		100		20	100
Trailing Detector (ft)	0		0		0	0
Detector 1 Position(ft)	0		0		0	0
Detector 1 Size(ft)	20		6		20	6
Detector 1 Type	Cl+Ex		Cl+Ex		Cl+Ex	Cl+Ex
Detector 1 Channel						
Detector 1 Extend (s)	0.0		0.0		0.0	0.0
Detector 1 Queue (s)	0.0		0.0		0.0	0.0
Detector 1 Delay (s)	0.0		0.0		0.0	0.0
Detector 2 Position(ft)			94			94
Detector 2 Size(ft)			6			6
Detector 2 Type			Cl+Ex			Cl+Ex
Detector 2 Channel						
Detector 2 Extend (s)			0.0			0.0

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Turn Type	Prot		NA		Prot	NA
Protected Phases	4		2		1	6
Permitted Phases						
Detector Phase	4		2		1	6
Switch Phase						
Minimum Initial (s)	6.0		6.0		4.0	6.0
Minimum Split (s)	26.2		21.6		8.0	10.6
Total Split (s)	25.2		50.6		19.0	53.6
Total Split (%)	26.6%		53.4%		20.0%	56.5%
Maximum Green (s)	21.0		46.0		15.0	49.0
Yellow Time (s)	3.2		3.6		3.0	3.6
All-Red Time (s)	1.0		1.0		1.0	1.0
Lost Time Adjust (s)	0.0		0.0		0.0	0.0
Total Lost Time (s)	4.2		4.6		4.0	4.6
Lead/Lag			Lag		Lead	
Lead-Lag Optimize?			Yes		Yes	
Vehicle Extension (s)	2.0		2.0		2.0	2.0
Minimum Gap (s)	2.0		3.0		2.0	3.0
Time Before Reduce (s)	7.0		22.0		5.0	22.0
Time To Reduce (s)	9.0		30.0		6.0	30.0
Recall Mode	None		Min		None	Min
Walk Time (s)	7.0		7.0			
Flash Dont Walk (s)	15.0		10.0			
Pedestrian Calls (#/hr)	5		5			
Act Effct Green (s)	9.9		29.2		9.4	39.8
Actuated g/C Ratio	0.17		0.49		0.16	0.67
v/c Ratio	0.43		0.68		0.43	0.48
Control Delay	18.6		15.2		33.2	5.6
Queue Delay	0.0		0.0		0.0	0.0
Total Delay	18.6		15.2		33.2	5.6
LOS	B		B		C	A
Approach Delay	18.6		15.2			8.2
Approach LOS	B		B			A

Intersection Summary			
Area Type:	Other		
Cycle Length: 94.8			
Actuated Cycle Length: 59.6			
Natural Cycle: 65			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.68			
Intersection Signal Delay: 12.2		Intersection LOS: B	
Intersection Capacity Utilization 55.3%		ICU Level of Service B	
Analysis Period (min) 15			

Splits and Phases: 2: Washington Ave & 143rd Ave



Lane Group	WBL	NBT	SBL	SBT
Lane Group Flow (vph)	268	1164	117	1141
v/c Ratio	0.43	0.68	0.43	0.48
Control Delay	18.6	15.2	33.2	5.6
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	18.6	15.2	33.2	5.6
Queue Length 50th (ft)	26	144	35	65
Queue Length 95th (ft)	78	345	120	193
Internal Link Dist (ft)	1250	815		2806
Turn Bay Length (ft)			100	
Base Capacity (vph)	1364	2770	484	3341
Starvation Cap Reductn	0	0	0	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.20	0.42	0.24	0.34

Intersection Summary

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	159	90	869	214	109	1061
Future Volume (vph)	159	90	869	214	109	1061
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.2		4.6		4.0	4.6
Lane Util. Factor	0.97		0.95		1.00	0.95
Frpb, ped/bikes	0.99		1.00		1.00	1.00
Flpb, ped/bikes	1.00		1.00		1.00	1.00
Frt	0.95		0.97		1.00	1.00
Flt Protected	0.97		1.00		0.95	1.00
Satd. Flow (prot)	3295		3453		1719	3574
Flt Permitted	0.97		1.00		0.95	1.00
Satd. Flow (perm)	3295		3453		1719	3574
Peak-hour factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	171	97	934	230	117	1141
RTOR Reduction (vph)	81	0	22	0	0	0
Lane Group Flow (vph)	187	0	1142	0	117	1141
Confl. Peds. (#/hr)		1		1	1	
Heavy Vehicles (%)	1%	3%	1%	1%	5%	1%
Turn Type	Prot		NA		Prot	NA
Protected Phases	4		2		1	6
Permitted Phases						
Actuated Green, G (s)	9.9		29.1		7.6	40.7
Effective Green, g (s)	9.9		29.1		7.6	40.7
Actuated g/C Ratio	0.17		0.49		0.13	0.69
Clearance Time (s)	4.2		4.6		4.0	4.6
Vehicle Extension (s)	2.0		2.0		2.0	2.0
Lane Grp Cap (vph)	549		1691		219	2448
v/s Ratio Prot	c0.06		c0.33		0.07	c0.32
v/s Ratio Perm						
v/c Ratio	0.34		0.68		0.53	0.47
Uniform Delay, d1	21.9		11.5		24.2	4.3
Progression Factor	1.00		1.00		1.00	1.00
Incremental Delay, d2	0.1		0.8		1.3	0.1
Delay (s)	22.0		12.4		25.5	4.4
Level of Service	C		B		C	A
Approach Delay (s)	22.0		12.4			6.3
Approach LOS	C		B			A

Intersection Summary			
HCM 2000 Control Delay	10.5	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.58		
Actuated Cycle Length (s)	59.4	Sum of lost time (s)	12.8
Intersection Capacity Utilization	55.3%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	159	90	869	214	109	1061
Future Volume (veh/h)	159	90	869	214	109	1061
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	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	1885	1856	1885	1885	1826	1885
Adj Flow Rate, veh/h	134	0	934	230	117	1141
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	1	3	1	1	5	1
Cap, veh/h	212		1332	327	150	2350
Arrive On Green	0.12	0.00	0.47	0.47	0.09	0.66
Sat Flow, veh/h	1795	1572	2943	700	1739	3676
Grp Volume(v), veh/h	134	0	587	577	117	1141
Grp Sat Flow(s),veh/h/ln	1795	1572	1791	1758	1739	1791
Q Serve(g_s), s	2.8	0.0	10.1	10.1	2.6	6.3
Cycle Q Clear(g_c), s	2.8	0.0	10.1	10.1	2.6	6.3
Prop In Lane	1.00	1.00		0.40	1.00	
Lane Grp Cap(c), veh/h	212		837	822	150	2350
V/C Ratio(X)	0.63		0.70	0.70	0.78	0.49
Avail Cap(c_a), veh/h	968		2115	2076	670	4506
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	16.4	0.0	8.2	8.2	17.4	3.4
Incr Delay (d2), s/veh	1.2	0.0	0.4	0.4	3.4	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	0.0	2.6	2.6	1.0	0.7
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	17.5	0.0	8.6	8.6	20.8	3.4
LnGrp LOS	B		A	A	C	A
Approach Vol, veh/h	134	A	1164			1258
Approach Delay, s/veh	17.5		8.6			5.1
Approach LOS	B		A			A

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	7.4	22.8		8.8		30.2
Change Period (Y+Rc), s	4.0	4.6		* 4.2		4.6
Max Green Setting (Gmax), s	15.0	46.0		* 21		49.0
Max Q Clear Time (g_c+I1), s	4.6	12.1		4.8		8.3
Green Ext Time (p_c), s	0.1	6.1		0.1		6.9

Intersection Summary	
HCM 6th Ctrl Delay	7.3
HCM 6th LOS	A

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

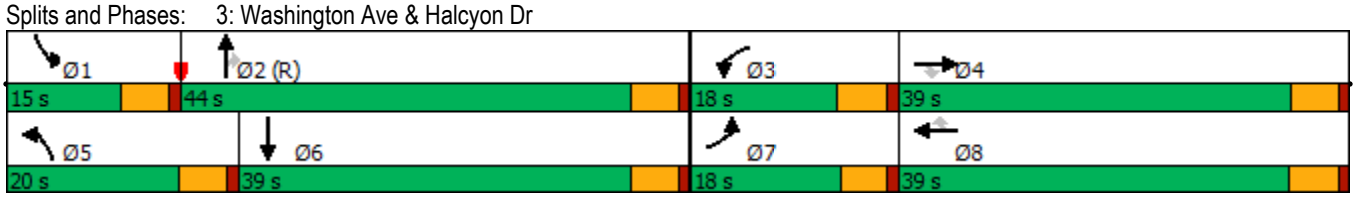
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	179	773	437	316	638	168	229	698	307	175	825	242
Future Volume (vph)	179	773	437	316	638	168	229	698	307	175	825	242
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	140		170	225		25	145		225	195		100
Storage Lanes	2		1	2		1	2		1	2		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.91	1.00
Ped Bike Factor	0.99		0.97	1.00		0.98	1.00		0.98	1.00		0.99
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3502	3574	1568	3502	3505	1568	3242	3574	1599	3467	5085	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3476	3574	1528	3489	3505	1532	3232	3574	1575	3460	5085	1560
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			206			118			270			169
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		528			456			1136			1014	
Travel Time (s)		12.0			10.4			25.8			23.0	
Confl. Peds. (#/hr)	9		9	9		9	9		3	3		9
Confl. Bikes (#/hr)			3									
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	0%	1%	3%	0%	3%	3%	8%	1%	1%	1%	2%	2%
Adj. Flow (vph)	186	805	455	329	665	175	239	727	320	182	859	252
Shared Lane Traffic (%)												
Lane Group Flow (vph)	186	805	455	329	665	175	239	727	320	182	859	252
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		24			24			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane					Yes							
Headway 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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2	1	1	2	1	1	2	1
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Leading Detector (ft)	20	100	20	20	100	20	20	100	20	20	100	20
Trailing Detector (ft)	0	0	0	0	0	0	0	0	0	0	0	0
Detector 1 Position(ft)	0	0	0	0	0	0	0	0	0	0	0	0
Detector 1 Size(ft)	20	6	20	20	6	20	20	6	20	20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												

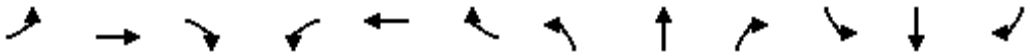
Lanes, Volumes, Timings
3: Washington Ave & Halcyon Dr 05/10/2022

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Free
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			Free
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	
Switch Phase												
Minimum Initial (s)	8.0	12.0	12.0	4.0	8.0	8.0	4.0	9.0	9.0	5.0	9.0	
Minimum Split (s)	13.1	33.1	33.1	9.4	33.4	33.4	9.1	37.1	37.1	10.1	35.1	
Total Split (s)	18.0	39.0	39.0	18.0	39.0	39.0	20.0	44.0	44.0	15.0	39.0	
Total Split (%)	15.5%	33.6%	33.6%	15.5%	33.6%	33.6%	17.2%	37.9%	37.9%	12.9%	33.6%	
Maximum Green (s)	12.9	33.9	33.9	12.6	33.6	33.6	14.9	38.9	38.9	9.9	33.9	
Yellow Time (s)	4.1	4.1	4.1	4.4	4.4	4.4	4.1	4.1	4.1	4.1	4.1	
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Minimum Gap (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Time Before Reduce (s)	4.0	7.0	7.0	3.0	6.0	6.0	4.0	5.0	5.0	5.0	7.0	
Time To Reduce (s)	5.0	9.0	9.0	4.0	8.0	8.0	5.0	7.0	7.0	7.0	10.0	
Recall Mode	None	None	None	None	None	None	None	C-Min	C-Min	None	Min	
Walk Time (s)		6.0	6.0		6.0	6.0		6.0	6.0		6.0	
Flash Dont Walk (s)		22.0	22.0		22.0	22.0		26.0	26.0		24.0	
Pedestrian Calls (#/hr)		5	5		5	5		5	5		5	
Act Effct Green (s)	11.9	32.4	32.4	15.3	35.8	35.8	13.7	37.6	37.6	10.0	33.9	116.0
Actuated g/C Ratio	0.10	0.28	0.28	0.13	0.31	0.31	0.12	0.32	0.32	0.09	0.29	1.00
v/c Ratio	0.52	0.81	0.79	0.71	0.61	0.32	0.62	0.63	0.46	0.61	0.58	0.16
Control Delay	54.5	45.8	31.5	57.8	37.1	12.6	56.1	36.6	8.4	60.5	37.5	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	54.5	45.8	31.5	57.8	37.1	12.6	56.1	36.6	8.4	60.5	37.5	0.2
LOS	D	D	C	E	D	B	E	D	A	E	D	A
Approach Delay		42.4			39.3			33.2			33.5	
Approach LOS		D			D			C			C	

Intersection Summary			
Area Type:	Other		
Cycle Length: 116			
Actuated Cycle Length: 116			
Offset: 98 (84%), Referenced to phase 2:NBT, Start of Green			
Natural Cycle: 95			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.81			
Intersection Signal Delay: 37.2		Intersection LOS: D	
Intersection Capacity Utilization 79.8%		ICU Level of Service D	
Analysis Period (min) 15			

Splits and Phases: 3: Washington Ave & Halcyon Dr

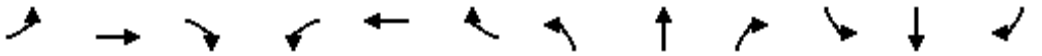




Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	186	805	455	329	665	175	239	727	320	182	859	252
v/c Ratio	0.52	0.81	0.79	0.71	0.61	0.32	0.62	0.63	0.46	0.61	0.58	0.16
Control Delay	54.5	45.8	31.5	57.8	37.1	12.6	56.1	36.6	8.4	60.5	37.5	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	54.5	45.8	31.5	57.8	37.1	12.6	56.1	36.6	8.4	60.5	37.5	0.2
Queue Length 50th (ft)	68	283	172	119	207	28	88	259	28	69	217	0
Queue Length 95th (ft)	105	364	311	#205	294	89	130	302	98	107	245	0
Internal Link Dist (ft)		448			376			1056			934	
Turn Bay Length (ft)	140		170	225		25	145		225	195		100
Base Capacity (vph)	394	1053	595	462	1094	559	416	1236	721	302	1573	1560
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.47	0.76	0.76	0.71	0.61	0.31	0.57	0.59	0.44	0.60	0.55	0.16

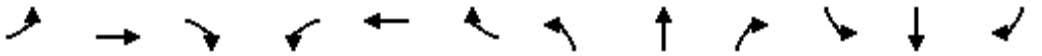
Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	179	773	437	316	638	168	229	698	307	175	825	242
Future Volume (vph)	179	773	437	316	638	168	229	698	307	175	825	242
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	4.0
Lane Util. Factor	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.91	1.00
Frpb, ped/bikes	1.00	1.00	0.97	1.00	1.00	0.98	1.00	1.00	0.98	1.00	1.00	0.99
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3502	3574	1528	3502	3505	1532	3242	3574	1575	3467	5085	1560
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3502	3574	1528	3502	3505	1532	3242	3574	1575	3467	5085	1560
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	186	805	455	329	665	175	239	727	320	182	859	252
RTOR Reduction (vph)	0	0	148	0	0	82	0	0	182	0	0	0
Lane Group Flow (vph)	186	805	307	329	665	93	239	727	138	182	859	252
Confl. Peds. (#/hr)	9		9	9		9	9		3	3		9
Confl. Bikes (#/hr)			3									
Heavy Vehicles (%)	0%	1%	3%	0%	3%	3%	8%	1%	1%	1%	2%	2%
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Free
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			Free
Actuated Green, G (s)	11.9	32.4	32.4	15.3	35.8	35.8	13.7	37.6	37.6	10.0	33.9	116.0
Effective Green, g (s)	11.9	32.4	32.4	15.3	35.8	35.8	13.7	37.6	37.6	10.0	33.9	116.0
Actuated g/C Ratio	0.10	0.28	0.28	0.13	0.31	0.31	0.12	0.32	0.32	0.09	0.29	1.00
Clearance Time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	
Vehicle Extension (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Lane Grp Cap (vph)	359	998	426	461	1081	472	382	1158	510	298	1486	1560
v/s Ratio Prot	0.05	c0.23		c0.09	c0.19		c0.07	c0.20		0.05	0.17	
v/s Ratio Perm			0.20			0.06			0.09			0.16
v/c Ratio	0.52	0.81	0.72	0.71	0.62	0.20	0.63	0.63	0.27	0.61	0.58	0.16
Uniform Delay, d1	49.3	38.9	37.7	48.3	34.2	29.5	48.7	33.3	29.0	51.1	35.0	0.0
Progression 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
Incremental Delay, d2	1.7	5.1	6.1	5.5	1.2	0.3	3.6	2.6	1.3	4.2	0.7	0.2
Delay (s)	51.0	44.0	43.8	53.8	35.4	29.8	52.3	35.8	30.3	55.3	35.6	0.2
Level of Service	D	D	D	D	D	C	D	D	C	E	D	A
Approach Delay (s)		44.9			39.8			37.5			31.5	
Approach LOS		D			D			D			C	

Intersection Summary			
HCM 2000 Control Delay	38.6	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.72		
Actuated Cycle Length (s)	116.0	Sum of lost time (s)	20.7
Intersection Capacity Utilization	79.8%	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)	179	773	437	316	638	168	229	698	307	175	825	242
Future Volume (veh/h)	179	773	437	316	638	168	229	698	307	175	825	242
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.99	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	1900	1885	1856	1900	1856	1856	1781	1885	1885	1885	1870	1870
Adj Flow Rate, veh/h	186	805	455	329	665	175	239	727	0	182	859	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	1	3	0	3	3	8	1	1	1	2	2
Cap, veh/h	253	1047	449	381	1168	517	304	1248		243	1663	
Arrive On Green	0.07	0.29	0.29	0.11	0.33	0.33	0.09	0.35	0.00	0.07	0.33	0.00
Sat Flow, veh/h	3510	3582	1536	3510	3526	1560	3291	3582	1598	3483	5106	1585
Grp Volume(v), veh/h	186	805	455	329	665	175	239	727	0	182	859	0
Grp Sat Flow(s),veh/h/ln	1755	1791	1536	1755	1763	1560	1646	1791	1598	1742	1702	1585
Q Serve(g_s), s	6.0	23.8	33.9	10.7	18.0	9.8	8.2	19.2	0.0	5.9	15.8	0.0
Cycle Q Clear(g_c), s	6.0	23.8	33.9	10.7	18.0	9.8	8.2	19.2	0.0	5.9	15.8	0.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	253	1047	449	381	1168	517	304	1248		243	1663	
V/C Ratio(X)	0.74	0.77	1.01	0.86	0.57	0.34	0.79	0.58		0.75	0.52	
Avail Cap(c_a), veh/h	390	1047	449	381	1168	517	423	1248		297	1663	
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	0.00	0.63	0.63	0.00
Uniform Delay (d), s/veh	52.7	37.5	41.0	50.8	32.0	29.2	51.5	30.9	0.0	53.0	31.7	0.0
Incr Delay (d2), s/veh	5.8	3.8	46.0	18.5	0.8	0.5	8.0	2.0	0.0	6.2	0.2	0.0
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(50%),veh/ln	2.9	10.9	18.4	5.7	7.8	3.8	3.7	8.6	0.0	2.8	6.5	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	58.5	41.2	87.0	69.4	32.8	29.8	59.5	32.9	0.0	59.1	32.0	0.0
LnGrp LOS	E	D	F	E	C	C	E	C		E	C	
Approach Vol, veh/h		1446			1169			966	A		1041	A
Approach Delay, s/veh		57.9			42.6			39.5			36.7	
Approach LOS		E			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.2	45.5	18.0	39.3	15.8	42.9	13.5	43.8
Change Period (Y+Rc), s	5.1	5.1	5.4	* 5.4	5.1	5.1	5.1	5.4
Max Green Setting (Gmax), s	9.9	38.9	12.6	* 34	14.9	33.9	12.9	33.6
Max Q Clear Time (g_c+I1), s	7.9	21.2	12.7	35.9	10.2	17.8	8.0	20.0
Green Ext Time (p_c), s	0.2	6.3	0.0	0.0	0.5	7.1	0.4	5.8

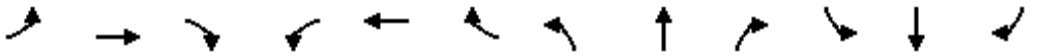
Intersection Summary	
HCM 6th Ctrl Delay	45.4
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Appendix F - Cumulative Plus Project Traffic Conditions Synchro Report



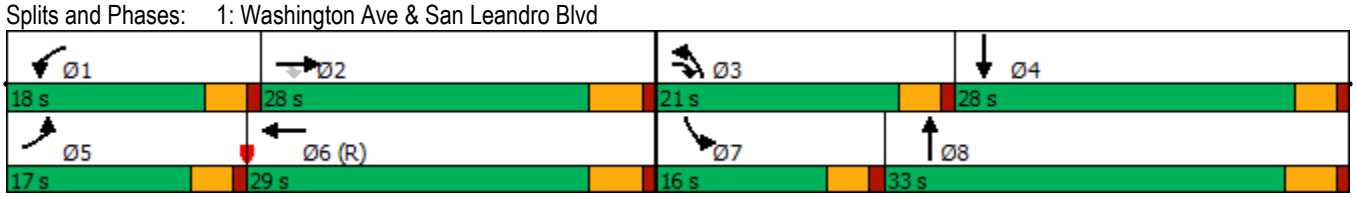
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	9	505	356	95	889	94	783	337	107	63	310	63
Future Volume (vph)	9	505	356	95	889	94	783	337	107	63	310	63
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	140		150	90		0	120		0	80		0
Storage Lanes	1		1	1		0	2		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95	0.95	0.97	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor	1.00		0.99	1.00	1.00		1.00	1.00		1.00	1.00	
Frt			0.850		0.986			0.964			0.975	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1626	3539	1568	1703	3477	0	3400	3341	0	1687	3455	0
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1621	3539	1545	1701	3477	0	3397	3341	0	1685	3455	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			246		11			45			24	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		977			1135			2249			891	
Travel Time (s)		22.2			25.8			51.1			20.3	
Confl. Peds. (#/hr)	16		2	2		16	1		3	3		1
Confl. Bikes (#/hr)			2						2			
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Heavy Vehicles (%)	11%	2%	3%	6%	2%	3%	3%	4%	3%	7%	2%	0%
Adj. Flow (vph)	11	601	424	113	1058	112	932	401	127	75	369	75
Shared Lane Traffic (%)												
Lane Group Flow (vph)	11	601	424	113	1170	0	932	528	0	75	444	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway 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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2		1	2		1	2	
Detector Template	Left	Thru	Right	Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100	20	20	100		20	100		20	100	
Trailing Detector (ft)	0	0	0	0	0		0	0		0	0	
Detector 1 Position(ft)	0	0	0	0	0		0	0		0	0	
Detector 1 Size(ft)	20	6	20	20	6		20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												

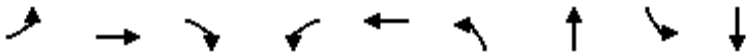
Lanes, Volumes, Timings
1: Washington Ave & San Leandro Blvd 05/10/2022

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Prot	NA	pm+ov	Prot	NA		Prot	NA		Prot	NA	
Protected Phases	5	2	3	1	6		3	8		7	4	
Permitted Phases			2									
Detector Phase	5	2	3	1	6		3	8		7	4	
Switch Phase												
Minimum Initial (s)	4.0	4.0	4.0	4.0	4.0		4.0	4.0		4.0	4.0	
Minimum Split (s)	8.0	34.9	8.0	8.0	32.9		8.0	33.6		8.0	34.0	
Total Split (s)	17.0	28.0	21.0	18.0	29.0		21.0	33.0		16.0	28.0	
Total Split (%)	17.9%	29.5%	22.1%	18.9%	30.5%		22.1%	34.7%		16.8%	29.5%	
Maximum Green (s)	13.0	23.1	17.0	14.0	24.1		17.0	28.4		12.0	24.0	
Yellow Time (s)	3.0	3.9	3.0	3.0	3.9		3.0	3.6		3.0	3.0	
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Lead/Lag	Lead	Lag	Lead	Lead	Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes		Yes	Yes		Yes	Yes	
Vehicle Extension (s)	2.0	3.0	2.0	2.0	3.0		2.0	3.0		2.0	3.0	
Minimum Gap (s)	2.0	2.0	2.0	2.0	2.0		2.0	2.0		2.0	2.0	
Time Before Reduce (s)	3.0	13.0	7.0	5.0	12.0		7.0	9.0		6.0	9.0	
Time To Reduce (s)	4.0	15.0	8.0	6.0	13.0		8.0	10.0		7.0	11.0	
Recall Mode	None	Min	None	None	C-Min		None	None		None	None	
Walk Time (s)		7.0			7.0			7.0			7.0	
Flash Dont Walk (s)		23.0			21.0			22.0			23.0	
Pedestrian Calls (#/hr)		5			5			5			5	
Act Effct Green (s)	5.3	33.3	51.2	10.4	45.6		17.0	27.0		8.5	17.4	
Actuated g/C Ratio	0.06	0.35	0.54	0.11	0.48		0.18	0.28		0.09	0.18	
v/c Ratio	0.12	0.48	0.45	0.61	0.70		1.53	0.54		0.50	0.68	
Control Delay	45.1	27.4	7.0	53.7	24.2		278.2	28.8		51.8	39.3	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	45.1	27.4	7.0	53.7	24.2		278.2	28.8		51.8	39.3	
LOS	D	C	A	D	C		F	C		D	D	
Approach Delay		19.3			26.8			188.0			41.1	
Approach LOS		B			C			F			D	

Intersection Summary			
Area Type:	Other		
Cycle Length: 95			
Actuated Cycle Length: 95			
Offset: 39 (41%), Referenced to phase 6:WBT, Start of Green			
Natural Cycle: 125			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 1.53			
Intersection Signal Delay: 81.5		Intersection LOS: F	
Intersection Capacity Utilization 78.5%		ICU Level of Service D	
Analysis Period (min) 15			

Splits and Phases: 1: Washington Ave & San Leandro Blvd



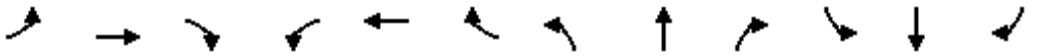


Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	11	601	424	113	1170	932	528	75	444
v/c Ratio	0.12	0.48	0.45	0.61	0.70	1.53	0.54	0.50	0.68
Control Delay	45.1	27.4	7.0	53.7	24.2	278.2	28.8	51.8	39.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	45.1	27.4	7.0	53.7	24.2	278.2	28.8	51.8	39.3
Queue Length 50th (ft)	6	146	47	66	260	~409	133	44	126
Queue Length 95th (ft)	22	215	117	109	#472	#480	161	80	148
Internal Link Dist (ft)		897			1055		2169		811
Turn Bay Length (ft)	140		150	90		120		80	
Base Capacity (vph)	222	1241	950	250	1674	608	1060	213	890
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.05	0.48	0.45	0.45	0.70	1.53	0.50	0.35	0.50

Intersection Summary

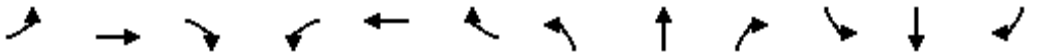
~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	9	505	356	95	889	94	783	337	107	63	310	63
Future Volume (vph)	9	505	356	95	889	94	783	337	107	63	310	63
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95		0.97	0.95		1.00	0.95	
Frpb, ped/bikes	1.00	1.00	0.99	1.00	1.00		1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00	
Frt	1.00	1.00	0.85	1.00	0.99		1.00	0.96		1.00	0.97	
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1626	3539	1553	1703	3476		3400	3340		1687	3453	
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1626	3539	1553	1703	3476		3400	3340		1687	3453	
Peak-hour factor, PHF	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Adj. Flow (vph)	11	601	424	113	1058	112	932	401	127	75	369	75
RTOR Reduction (vph)	0	0	118	0	6	0	0	32	0	0	19	0
Lane Group Flow (vph)	11	601	306	113	1164	0	932	496	0	75	425	0
Confl. Peds. (#/hr)	16		2	2		16	1		3	3		1
Confl. Bikes (#/hr)			2						2			
Heavy Vehicles (%)	11%	2%	3%	6%	2%	3%	3%	4%	3%	7%	2%	0%
Turn Type	Prot	NA	pm+ov	Prot	NA		Prot	NA		Prot	NA	
Protected Phases	5	2	3	1	6		3	8		7	4	
Permitted Phases			2									
Actuated Green, G (s)	1.3	32.6	49.6	10.4	41.7		17.0	27.0		7.5	18.1	
Effective Green, g (s)	1.3	32.6	49.6	10.4	41.7		17.0	27.0		7.5	18.1	
Actuated g/C Ratio	0.01	0.34	0.52	0.11	0.44		0.18	0.28		0.08	0.19	
Clearance Time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Vehicle Extension (s)	2.0	3.0	2.0	2.0	3.0		2.0	3.0		2.0	3.0	
Lane Grp Cap (vph)	22	1214	810	186	1525		608	949		133	657	
v/s Ratio Prot	0.01	0.17	0.07	c0.07	c0.33		c0.27	0.15		0.04	c0.12	
v/s Ratio Perm			0.13									
v/c Ratio	0.50	0.50	0.38	0.61	0.76		1.53	0.52		0.56	0.65	
Uniform Delay, d1	46.5	24.7	13.5	40.4	22.5		39.0	28.6		42.2	35.5	
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	6.4	0.3	0.1	3.8	3.7		248.0	0.5		3.2	2.2	
Delay (s)	52.9	25.0	13.6	44.2	26.2		287.0	29.1		45.4	37.7	
Level of Service	D	C	B	D	C		F	C		D	D	
Approach Delay (s)		20.6			27.7			193.8			38.8	
Approach LOS		C			C			F			D	

Intersection Summary			
HCM 2000 Control Delay	83.8	HCM 2000 Level of Service	F
HCM 2000 Volume to Capacity ratio	0.92		
Actuated Cycle Length (s)	95.0	Sum of lost time (s)	17.5
Intersection Capacity Utilization	78.5%	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)	9	505	356	95	889	94	783	337	107	63	310	63
Future Volume (veh/h)	9	505	356	95	889	94	783	337	107	63	310	63
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	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	1737	1870	1856	1811	1870	1856	1856	1841	1856	1796	1870	1900
Adj Flow Rate, veh/h	11	601	424	113	1058	112	932	401	0	75	369	0
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Percent Heavy Veh, %	11	2	3	6	2	3	3	4	3	7	2	0
Cap, veh/h	18	864	651	141	1017	108	613	950		95	527	
Arrive On Green	0.01	0.24	0.24	0.08	0.31	0.31	0.18	0.27	0.00	0.06	0.15	0.00
Sat Flow, veh/h	1654	3554	1520	1725	3237	342	3428	3589	0	1711	3647	0
Grp Volume(v), veh/h	11	601	424	113	580	590	932	401	0	75	369	0
Grp Sat Flow(s),veh/h/ln	1654	1777	1520	1725	1777	1802	1714	1749	0	1711	1777	0
Q Serve(g_s), s	0.6	14.6	21.2	6.1	29.9	29.9	17.0	9.0	0.0	4.1	9.4	0.0
Cycle Q Clear(g_c), s	0.6	14.6	21.2	6.1	29.9	29.9	17.0	9.0	0.0	4.1	9.4	0.0
Prop In Lane	1.00		1.00	1.00		0.19	1.00		0.00	1.00		0.00
Lane Grp Cap(c), veh/h	18	864	651	141	558	566	613	950		95	527	
V/C Ratio(X)	0.63	0.70	0.65	0.80	1.04	1.04	1.52	0.42		0.79	0.70	
Avail Cap(c_a), veh/h	226	864	651	254	558	566	613	1046		216	898	
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	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	46.8	32.7	22.0	42.9	32.6	32.6	39.0	28.5	0.0	44.3	38.4	0.0
Incr Delay (d2), s/veh	12.8	2.4	2.3	4.0	48.7	48.9	241.9	0.3	0.0	5.3	1.7	0.0
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(50%),veh/ln	0.3	6.5	7.7	2.7	19.9	20.3	27.6	3.7	0.0	1.9	4.2	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	59.7	35.2	24.3	46.8	81.2	81.4	280.9	28.8	0.0	49.6	40.1	0.0
LnGrp LOS	E	D	C	D	F	F	F	C		D	D	
Approach Vol, veh/h		1036			1283			1333	A		444	A
Approach Delay, s/veh		31.0			78.3			205.1			41.7	
Approach LOS		C			E			F			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.8	28.0	21.0	18.7	5.0	34.8	9.3	30.4
Change Period (Y+Rc), s	4.0	4.9	4.0	* 4.6	4.0	4.9	4.0	4.6
Max Green Setting (Gmax), s	14.0	23.1	17.0	* 24	13.0	24.1	12.0	28.4
Max Q Clear Time (g_c+I1), s	8.1	23.2	19.0	11.4	2.6	31.9	6.1	11.0
Green Ext Time (p_c), s	0.1	0.0	0.0	1.9	0.0	0.0	0.0	2.4

Intersection Summary	
HCM 6th Ctrl Delay	103.6
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.

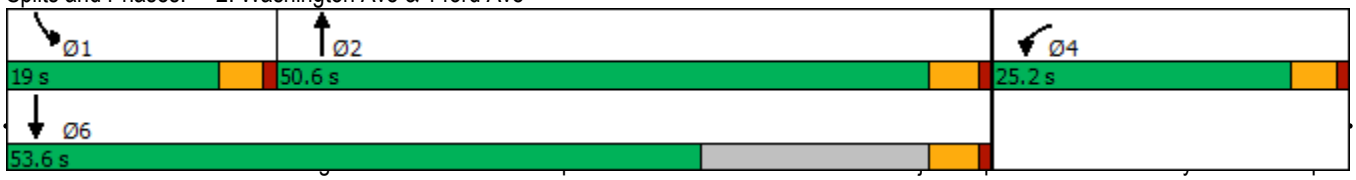
Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	276	171	1047	258	64	583
Future Volume (vph)	276	171	1047	258	64	583
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	90		0	100	
Storage Lanes	2	1		0	1	
Taper Length (ft)	25				25	
Lane Util. Factor	0.97	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	0.99		1.00		1.00	
Frt	0.943		0.970			
Flt Protected	0.970				0.950	
Satd. Flow (prot)	3287	0	3384	0	1719	3406
Flt Permitted	0.970				0.950	
Satd. Flow (perm)	3287	0	3384	0	1719	3406
Right Turn on Red		Yes		Yes		
Satd. Flow (RTOR)	142		44			
Link Speed (mph)	30		30			30
Link Distance (ft)	1330		895			516
Travel Time (s)	30.2		20.3			11.7
Confl. Peds. (#/hr)		5		1	1	
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82
Heavy Vehicles (%)	1%	2%	3%	3%	5%	6%
Adj. Flow (vph)	337	209	1277	315	78	711
Shared Lane Traffic (%)						
Lane Group Flow (vph)	546	0	1592	0	78	711
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	24		12			12
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Number of Detectors	1		2		1	2
Detector Template	Left		Thru		Left	Thru
Leading Detector (ft)	20		100		20	100
Trailing Detector (ft)	0		0		0	0
Detector 1 Position(ft)	0		0		0	0
Detector 1 Size(ft)	20		6		20	6
Detector 1 Type	Cl+Ex		Cl+Ex		Cl+Ex	Cl+Ex
Detector 1 Channel						
Detector 1 Extend (s)	0.0		0.0		0.0	0.0
Detector 1 Queue (s)	0.0		0.0		0.0	0.0
Detector 1 Delay (s)	0.0		0.0		0.0	0.0
Detector 2 Position(ft)			94			94
Detector 2 Size(ft)			6			6
Detector 2 Type			Cl+Ex			Cl+Ex
Detector 2 Channel						
Detector 2 Extend (s)			0.0			0.0

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Turn Type	Prot		NA		Prot	NA
Protected Phases	4		2		1	6
Permitted Phases						
Detector Phase	4		2		1	6
Switch Phase						
Minimum Initial (s)	6.0		6.0		4.0	6.0
Minimum Split (s)	26.2		21.6		8.0	10.6
Total Split (s)	25.2		50.6		19.0	53.6
Total Split (%)	26.6%		53.4%		20.0%	56.5%
Maximum Green (s)	21.0		46.0		15.0	49.0
Yellow Time (s)	3.2		3.6		3.0	3.6
All-Red Time (s)	1.0		1.0		1.0	1.0
Lost Time Adjust (s)	0.0		0.0		0.0	0.0
Total Lost Time (s)	4.2		4.6		4.0	4.6
Lead/Lag			Lag		Lead	
Lead-Lag Optimize?			Yes		Yes	
Vehicle Extension (s)	2.0		2.0		2.0	2.0
Minimum Gap (s)	2.0		3.0		2.0	3.0
Time Before Reduce (s)	7.0		22.0		5.0	22.0
Time To Reduce (s)	9.0		30.0		6.0	30.0
Recall Mode	None		Min		None	Min
Walk Time (s)	7.0		7.0			
Flash Dont Walk (s)	15.0		10.0			
Pedestrian Calls (#/hr)	5		5			
Act Effct Green (s)	14.9		42.8		8.2	52.3
Actuated g/C Ratio	0.19		0.56		0.11	0.68
v/c Ratio	0.73		0.83		0.43	0.31
Control Delay	28.7		20.7		43.4	5.4
Queue Delay	0.0		0.0		0.0	0.0
Total Delay	28.7		20.7		43.4	5.4
LOS	C		C		D	A
Approach Delay	28.7		20.7			9.1
Approach LOS	C		C			A

Intersection Summary			
Area Type:	Other		
Cycle Length: 94.8			
Actuated Cycle Length: 76.6			
Natural Cycle: 80			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.83			
Intersection Signal Delay: 19.1		Intersection LOS: B	
Intersection Capacity Utilization 65.6%		ICU Level of Service C	
Analysis Period (min) 15			

Splits and Phases: 2: Washington Ave & 143rd Ave



Lane Group	WBL	NBT	SBL	SBT
Lane Group Flow (vph)	546	1592	78	711
v/c Ratio	0.73	0.83	0.43	0.31
Control Delay	28.7	20.7	43.4	5.4
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	28.7	20.7	43.4	5.4
Queue Length 50th (ft)	102	314	38	57
Queue Length 95th (ft)	141	463	78	95
Internal Link Dist (ft)	1250	815		436
Turn Bay Length (ft)			100	
Base Capacity (vph)	1071	2171	360	2784
Starvation Cap Reductn	0	0	0	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.51	0.73	0.22	0.26

Intersection Summary

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	276	171	1047	258	64	583
Future Volume (vph)	276	171	1047	258	64	583
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.2		4.6		4.0	4.6
Lane Util. Factor	0.97		0.95		1.00	0.95
Frpb, ped/bikes	0.99		1.00		1.00	1.00
Flpb, ped/bikes	1.00		1.00		1.00	1.00
Frt	0.94		0.97		1.00	1.00
Flt Protected	0.97		1.00		0.95	1.00
Satd. Flow (prot)	3288		3386		1719	3406
Flt Permitted	0.97		1.00		0.95	1.00
Satd. Flow (perm)	3288		3386		1719	3406
Peak-hour factor, PHF	0.82	0.82	0.82	0.82	0.82	0.82
Adj. Flow (vph)	337	209	1277	315	78	711
RTOR Reduction (vph)	115	0	20	0	0	0
Lane Group Flow (vph)	431	0	1572	0	78	711
Confl. Peds. (#/hr)		5		1	1	
Heavy Vehicles (%)	1%	2%	3%	3%	5%	6%
Turn Type	Prot		NA		Prot	NA
Protected Phases	4		2		1	6
Permitted Phases						
Actuated Green, G (s)	14.9		42.8		6.6	53.4
Effective Green, g (s)	14.9		42.8		6.6	53.4
Actuated g/C Ratio	0.19		0.56		0.09	0.69
Clearance Time (s)	4.2		4.6		4.0	4.6
Vehicle Extension (s)	2.0		2.0		2.0	2.0
Lane Grp Cap (vph)	635		1879		147	2359
v/s Ratio Prot	c0.13		c0.46		c0.05	0.21
v/s Ratio Perm						
v/c Ratio	0.68		0.84		0.53	0.30
Uniform Delay, d1	28.9		14.2		33.8	4.6
Progression Factor	1.00		1.00		1.00	1.00
Incremental Delay, d2	2.3		3.3		1.8	0.0
Delay (s)	31.2		17.5		35.6	4.6
Level of Service	C		B		D	A
Approach Delay (s)	31.2		17.5			7.7
Approach LOS	C		B			A

Intersection Summary			
HCM 2000 Control Delay	17.4	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.77		
Actuated Cycle Length (s)	77.1	Sum of lost time (s)	12.8
Intersection Capacity Utilization	65.6%	ICU Level of Service	C
Analysis Period (min)	15		

c Critical Lane Group

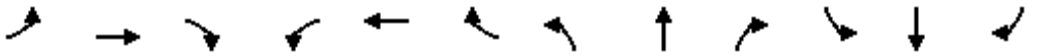
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	276	171	1047	258	64	583
Future Volume (veh/h)	276	171	1047	258	64	583
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1885	1870	1856	1856	1826	1811
Adj Flow Rate, veh/h	273	0	1277	315	78	711
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82
Percent Heavy Veh, %	1	2	3	3	5	6
Cap, veh/h	327		1557	378	99	2325
Arrive On Green	0.18	0.00	0.55	0.55	0.06	0.68
Sat Flow, veh/h	1795	1585	2905	682	1739	3532
Grp Volume(v), veh/h	273	0	792	800	78	711
Grp Sat Flow(s),veh/h/ln	1795	1585	1763	1732	1739	1721
Q Serve(g_s), s	9.1	0.0	22.5	23.7	2.7	5.2
Cycle Q Clear(g_c), s	9.1	0.0	22.5	23.7	2.7	5.2
Prop In Lane	1.00	1.00		0.39	1.00	
Lane Grp Cap(c), veh/h	327		976	959	99	2325
V/C Ratio(X)	0.83		0.81	0.83	0.78	0.31
Avail Cap(c_a), veh/h	610		1312	1289	422	2727
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	24.4	0.0	11.2	11.4	28.8	4.1
Incr Delay (d2), s/veh	2.2	0.0	2.1	2.8	5.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.8	0.0	7.4	7.8	1.2	1.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	26.6	0.0	13.3	14.2	33.8	4.1
LnGrp LOS	C		B	B	C	A
Approach Vol, veh/h	273	A	1592			789
Approach Delay, s/veh	26.6		13.7			7.1
Approach LOS	C		B			A

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	7.5	38.8		15.5		46.4
Change Period (Y+Rc), s	4.0	4.6		* 4.2		4.6
Max Green Setting (Gmax), s	15.0	46.0		* 21		49.0
Max Q Clear Time (g_c+I1), s	4.7	25.7		11.1		7.2
Green Ext Time (p_c), s	0.1	8.6		0.3		3.7

Intersection Summary	
HCM 6th Ctrl Delay	13.1
HCM 6th LOS	B

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



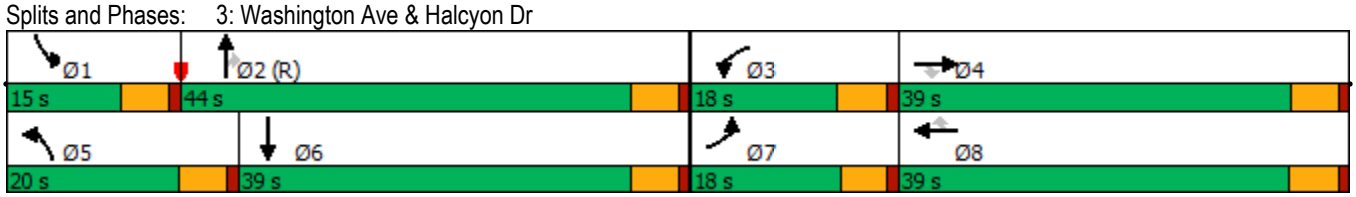
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	204	780	144	231	536	133	256	789	201	447	888	199
Future Volume (vph)	204	780	144	231	536	133	256	789	201	447	888	199
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	140		170	225		25	145		225	195		100
Storage Lanes	2		1	2		1	2		1	2		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.91	1.00
Ped Bike Factor	0.99		0.97	1.00		0.97	1.00		0.97	0.99		0.99
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3335	3539	1524	3467	3471	1417	3367	3438	1583	3273	4988	1553
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3311	3539	1482	3455	3471	1381	3365	3438	1529	3235	4988	1533
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			120			118			221			169
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		465			456			1136			1014	
Travel Time (s)		10.6			10.4			25.8			23.0	
Confl. Peds. (#/hr)	8		9	9		8	2		21	21		2
Confl. Bikes (#/hr)			6			5						
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles (%)	5%	2%	6%	1%	4%	14%	4%	5%	2%	7%	4%	4%
Adj. Flow (vph)	224	857	158	254	589	146	281	867	221	491	976	219
Shared Lane Traffic (%)												
Lane Group Flow (vph)	224	857	158	254	589	146	281	867	221	491	976	219
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		24			24			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane					Yes							
Headway 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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2	1	1	2	1	1	2	1
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Leading Detector (ft)	20	100	20	20	100	20	20	100	20	20	100	20
Trailing Detector (ft)	0	0	0	0	0	0	0	0	0	0	0	0
Detector 1 Position(ft)	0	0	0	0	0	0	0	0	0	0	0	0
Detector 1 Size(ft)	20	6	20	20	6	20	20	6	20	20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												

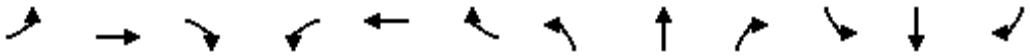
Lanes, Volumes, Timings
3: Washington Ave & Halcyon Dr 05/10/2022

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Free
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			Free
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	
Switch Phase												
Minimum Initial (s)	8.0	12.0	12.0	4.0	8.0	8.0	4.0	9.0	9.0	5.0	9.0	
Minimum Split (s)	13.1	33.1	33.1	9.4	33.4	33.4	9.1	37.1	37.1	10.1	35.1	
Total Split (s)	18.0	39.0	39.0	18.0	39.0	39.0	20.0	44.0	44.0	15.0	39.0	
Total Split (%)	15.5%	33.6%	33.6%	15.5%	33.6%	33.6%	17.2%	37.9%	37.9%	12.9%	33.6%	
Maximum Green (s)	12.9	33.9	33.9	12.6	33.6	33.6	14.9	38.9	38.9	9.9	33.9	
Yellow Time (s)	4.1	4.1	4.1	4.4	4.4	4.4	4.1	4.1	4.1	4.1	4.1	
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Minimum Gap (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Time Before Reduce (s)	4.0	7.0	7.0	3.0	6.0	6.0	4.0	5.0	5.0	5.0	7.0	
Time To Reduce (s)	5.0	9.0	9.0	4.0	8.0	8.0	5.0	7.0	7.0	7.0	10.0	
Recall Mode	None	None	None	None	None	None	None	C-Min	C-Min	None	Min	
Walk Time (s)		6.0	6.0		6.0	6.0		6.0	6.0		6.0	
Flash Dont Walk (s)		22.0	22.0		22.0	22.0		26.0	26.0		24.0	
Pedestrian Calls (#/hr)		5	5		5	5		5	5		5	
Act Effct Green (s)	12.5	32.6	32.6	12.7	32.7	32.7	14.1	35.6	35.6	14.5	35.9	116.0
Actuated g/C Ratio	0.11	0.28	0.28	0.11	0.28	0.28	0.12	0.31	0.31	0.12	0.31	1.00
v/c Ratio	0.62	0.86	0.31	0.67	0.60	0.31	0.69	0.82	0.36	1.20	0.63	0.14
Control Delay	57.5	49.6	11.2	58.9	38.8	10.5	57.9	44.4	5.3	157.1	37.2	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	57.5	49.6	11.2	58.9	38.8	10.5	57.9	44.4	5.3	157.1	37.2	0.2
LOS	E	D	B	E	D	B	E	D	A	F	D	A
Approach Delay		46.1			39.8			40.8			67.3	
Approach LOS		D			D			D			E	

Intersection Summary			
Area Type:	Other		
Cycle Length: 116			
Actuated Cycle Length: 116			
Offset: 98 (84%), Referenced to phase 2:NBT, Start of Green			
Natural Cycle: 105			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 1.20			
Intersection Signal Delay: 50.3		Intersection LOS: D	
Intersection Capacity Utilization 85.3%		ICU Level of Service E	
Analysis Period (min) 15			

Splits and Phases: 3: Washington Ave & Halcyon Dr



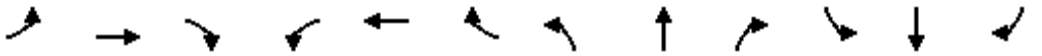


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	224	857	158	254	589	146	281	867	221	491	976	219
v/c Ratio	0.62	0.86	0.31	0.67	0.60	0.31	0.69	0.82	0.36	1.20	0.63	0.14
Control Delay	57.5	49.6	11.2	58.9	38.8	10.5	57.9	44.4	5.3	157.1	37.2	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	57.5	49.6	11.2	58.9	38.8	10.5	57.9	44.4	5.3	157.1	37.2	0.2
Queue Length 50th (ft)	82	314	21	93	196	15	104	308	0	~281	240	0
Queue Length 95th (ft)	125	394	74	140	257	66	151	378	53	#389	284	0
Internal Link Dist (ft)		385			376			1056			934	
Turn Bay Length (ft)	140		170	225		25	145		225	195		100
Base Capacity (vph)	376	1034	518	389	1009	484	432	1152	659	408	1557	1533
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.60	0.83	0.31	0.65	0.58	0.30	0.65	0.75	0.34	1.20	0.63	0.14

Intersection Summary

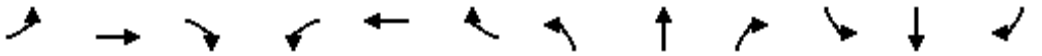
~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	204	780	144	231	536	133	256	789	201	447	888	199
Future Volume (vph)	204	780	144	231	536	133	256	789	201	447	888	199
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	4.0
Lane Util. Factor	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.91	1.00
Frpb, ped/bikes	1.00	1.00	0.97	1.00	1.00	0.97	1.00	1.00	0.97	1.00	1.00	0.99
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3335	3539	1482	3467	3471	1380	3367	3438	1529	3273	4988	1533
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3335	3539	1482	3467	3471	1380	3367	3438	1529	3273	4988	1533
Peak-hour factor, PHF	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Adj. Flow (vph)	224	857	158	254	589	146	281	867	221	491	976	219
RTOR Reduction (vph)	0	0	86	0	0	85	0	0	153	0	0	0
Lane Group Flow (vph)	224	857	72	254	589	61	281	867	68	491	976	219
Confl. Peds. (#/hr)	8		9	9		8	2		21	21		2
Confl. Bikes (#/hr)			6			5						
Heavy Vehicles (%)	5%	2%	6%	1%	4%	14%	4%	5%	2%	7%	4%	4%
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Free
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			Free
Actuated Green, G (s)	12.5	32.6	32.6	12.7	32.8	32.8	14.1	35.5	35.5	14.5	35.9	116.0
Effective Green, g (s)	12.5	32.6	32.6	12.7	32.8	32.8	14.1	35.5	35.5	14.5	35.9	116.0
Actuated g/C Ratio	0.11	0.28	0.28	0.11	0.28	0.28	0.12	0.31	0.31	0.12	0.31	1.00
Clearance Time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	
Vehicle Extension (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Lane Grp Cap (vph)	359	994	416	379	981	390	409	1052	467	409	1543	1533
v/s Ratio Prot	0.07	c0.24		c0.07	0.17		0.08	c0.25		c0.15	0.20	
v/s Ratio Perm			0.05			0.04			0.04			c0.14
v/c Ratio	0.62	0.86	0.17	0.67	0.60	0.16	0.69	0.82	0.14	1.20	0.63	0.14
Uniform Delay, d1	49.5	39.6	31.5	49.6	35.9	31.2	48.8	37.4	29.2	50.8	34.4	0.0
Progression 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
Incremental Delay, d2	3.8	8.1	0.3	5.0	1.2	0.3	5.1	7.3	0.7	111.5	1.0	0.2
Delay (s)	53.3	47.6	31.8	54.7	37.1	31.5	54.0	44.7	29.9	162.3	35.3	0.2
Level of Service	D	D	C	D	D	C	D	D	C	F	D	A
Approach Delay (s)		46.6			40.8			44.2			67.7	
Approach LOS		D			D			D			E	

Intersection Summary			
HCM 2000 Control Delay	51.7	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.87		
Actuated Cycle Length (s)	116.0	Sum of lost time (s)	20.7
Intersection Capacity Utilization	85.3%	ICU Level of Service	E
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)	204	780	144	231	536	133	256	789	201	447	888	199
Future Volume (veh/h)	204	780	144	231	536	133	256	789	201	447	888	199
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.97	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	1826	1870	1811	1885	1841	1693	1841	1826	1870	1796	1841	1841
Adj Flow Rate, veh/h	224	857	158	254	589	146	281	867	0	491	976	0
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	5	2	6	1	4	14	4	5	2	7	4	4
Cap, veh/h	287	982	413	318	996	398	348	1270		283	1755	
Arrive On Green	0.09	0.28	0.28	0.09	0.28	0.28	0.10	0.37	0.00	0.09	0.35	0.00
Sat Flow, veh/h	3374	3554	1494	3483	3497	1398	3401	3469	1585	3319	5025	1560
Grp Volume(v), veh/h	224	857	158	254	589	146	281	867	0	491	976	0
Grp Sat Flow(s),veh/h/ln	1687	1777	1494	1742	1749	1398	1700	1735	1585	1659	1675	1560
Q Serve(g_s), s	7.5	26.7	9.9	8.3	16.8	9.7	9.4	24.5	0.0	9.9	18.2	0.0
Cycle Q Clear(g_c), s	7.5	26.7	9.9	8.3	16.8	9.7	9.4	24.5	0.0	9.9	18.2	0.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	287	982	413	318	996	398	348	1270		283	1755	
V/C Ratio(X)	0.78	0.87	0.38	0.80	0.59	0.37	0.81	0.68		1.73	0.56	
Avail Cap(c_a), veh/h	375	1039	437	378	1013	405	437	1270		283	1755	
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	0.00	0.84	0.84	0.00
Uniform Delay (d), s/veh	52.0	40.0	34.0	51.7	35.7	33.1	51.0	31.1	0.0	53.0	30.5	0.0
Incr Delay (d2), s/veh	9.0	8.3	0.8	11.0	1.1	0.8	9.9	3.0	0.0	342.2	0.4	0.0
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(50%),veh/ln	3.6	12.7	3.7	4.1	7.3	3.4	4.5	10.7	0.0	17.6	7.4	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	61.0	48.4	34.8	62.7	36.8	33.9	60.9	34.1	0.0	395.3	30.9	0.0
LnGrp LOS	E	D	C	E	D	C	E	C		F	C	
Approach Vol, veh/h		1239			989			1148	A		1467	A
Approach Delay, s/veh		48.9			43.0			40.6			152.9	
Approach LOS		D			D			D			F	

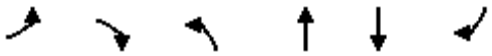
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.0	47.6	16.0	37.5	17.0	45.6	15.0	38.4
Change Period (Y+Rc), s	5.1	5.1	5.4	* 5.4	5.1	5.1	5.1	5.4
Max Green Setting (Gmax), s	9.9	38.9	12.6	* 34	14.9	33.9	12.9	33.6
Max Q Clear Time (g_c+I1), s	11.9	26.5	10.3	28.7	11.4	20.2	9.5	18.8
Green Ext Time (p_c), s	0.0	6.2	0.3	3.4	0.5	7.2	0.3	5.3

Intersection Summary	
HCM 6th Ctrl Delay	77.2
HCM 6th LOS	E

Notes

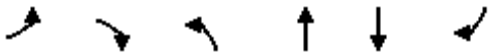
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	1	2	0	1186	638	8
Future Volume (vph)	1	2	0	1186	638	8
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	0.95	0.95	0.95	0.95
Frt	0.910				0.998	
Flt Protected	0.984					
Satd. Flow (prot)	1668	0	0	3539	3532	0
Flt Permitted	0.984					
Satd. Flow (perm)	1668	0	0	3539	3532	0
Link Speed (mph)	30			30	30	
Link Distance (ft)	343			121	2249	
Travel Time (s)	7.8			2.8	51.1	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	1	2	0	1289	693	9
Shared Lane Traffic (%)						
Lane Group Flow (vph)	3	0	0	1289	702	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			24	24	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop			Free	Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 42.8%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	1	2	0	1186	638	8
Future Volume (Veh/h)	1	2	0	1186	638	8
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	1	2	0	1289	693	9
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)				637		
pX, platoon unblocked	0.69					
vC, conflicting volume	1342	351	702			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	599	351	702			
tC, single (s)	6.8	6.9	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	100			
cM capacity (veh/h)	299	645	891			

Direction, Lane #	EB 1	NB 1	NB 2	SB 1	SB 2
Volume Total	3	430	859	462	240
Volume Left	1	0	0	0	0
Volume Right	2	0	0	0	9
cSH	466	891	1700	1700	1700
Volume to Capacity	0.01	0.00	0.51	0.27	0.14
Queue Length 95th (ft)	0	0	0	0	0
Control Delay (s)	12.8	0.0	0.0	0.0	0.0
Lane LOS	B				
Approach Delay (s)	12.8	0.0		0.0	
Approach LOS	B				

Intersection Summary				
Average Delay	0.0			
Intersection Capacity Utilization	42.8%	ICU Level of Service		A
Analysis Period (min)	15			

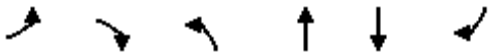
Intersection	
Int Delay, s/veh	0

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	1	2	0	1186	638	8
Future Vol, veh/h	1	2	0	1186	638	8
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	-	-	-	-	-
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	1	2	0	1289	693	9

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1343	351	702	0	-	0
Stage 1	698	-	-	-	-	-
Stage 2	645	-	-	-	-	-
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	143	645	891	-	-	-
Stage 1	455	-	-	-	-	-
Stage 2	484	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	143	645	891	-	-	-
Mov Cap-2 Maneuver	143	-	-	-	-	-
Stage 1	455	-	-	-	-	-
Stage 2	484	-	-	-	-	-

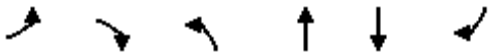
Approach	EB	NB	SB
HCM Control Delay, s	17.3	0	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	891	-	297	-	-
HCM Lane V/C Ratio	-	-	0.011	-	-
HCM Control Delay (s)	0	-	17.3	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	0	1	32	1186	640	0
Future Volume (vph)	0	1	32	1186	640	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	0.95	0.95	0.95	0.95
Frt	0.865					
Flt Protected				0.999		
Satd. Flow (prot)	1611	0	0	3536	3539	0
Flt Permitted				0.999		
Satd. Flow (perm)	1611	0	0	3536	3539	0
Link Speed (mph)	30			30	30	
Link Distance (ft)	110			516	121	
Travel Time (s)	2.5			11.7	2.8	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	1	35	1289	696	0
Shared Lane Traffic (%)						
Lane Group Flow (vph)	1	0	0	1324	696	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop			Free	Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 64.7%		ICU Level of Service C	
Analysis Period (min) 15			



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	0	1	32	1186	640	0
Future Volume (Veh/h)	0	1	32	1186	640	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	1	35	1289	696	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)				516		
pX, platoon unblocked	0.67					
vC, conflicting volume	1410	348	696			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	616	348	696			
tC, single (s)	6.8	6.9	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	96			
cM capacity (veh/h)	271	648	896			

Direction, Lane #	EB 1	NB 1	NB 2	SB 1	SB 2
Volume Total	1	465	859	464	232
Volume Left	0	35	0	0	0
Volume Right	1	0	0	0	0
cSH	648	896	1700	1700	1700
Volume to Capacity	0.00	0.04	0.51	0.27	0.14
Queue Length 95th (ft)	0	3	0	0	0
Control Delay (s)	10.6	1.1	0.0	0.0	0.0
Lane LOS	B	A			
Approach Delay (s)	10.6	0.4		0.0	
Approach LOS	B				

Intersection Summary			
Average Delay	0.3		
Intersection Capacity Utilization	64.7%	ICU Level of Service	C
Analysis Period (min)	15		

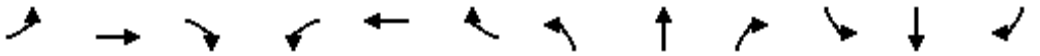
Intersection	
Int Delay, s/veh	0.5

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	1	32	1186	640	0
Future Vol, veh/h	0	1	32	1186	640	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	-	-	-	-	-
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	0	1	35	1289	696	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1411	348	696	0	-	0
Stage 1	696	-	-	-	-	-
Stage 2	715	-	-	-	-	-
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	129	648	896	-	-	-
Stage 1	456	-	-	-	-	-
Stage 2	446	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	111	648	896	-	-	-
Mov Cap-2 Maneuver	111	-	-	-	-	-
Stage 1	393	-	-	-	-	-
Stage 2	446	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	10.6	0.8	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	896	-	648	-	-
HCM Lane V/C Ratio	0.039	-	0.002	-	-
HCM Control Delay (s)	9.2	0.6	10.6	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0.1	-	0	-	-



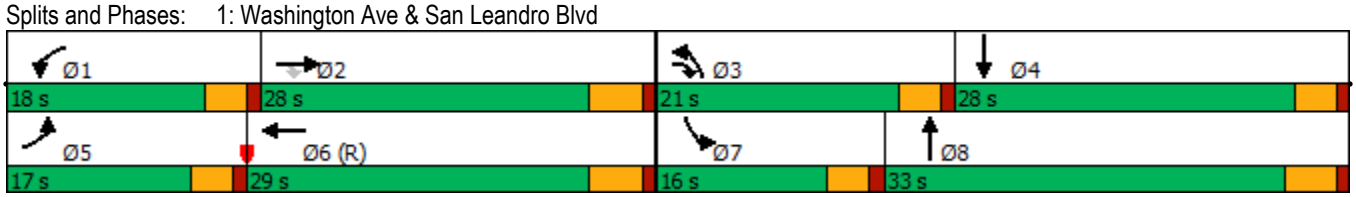
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	21	760	770	108	294	46	395	463	96	75	250	7
Future Volume (vph)	21	760	770	108	294	46	395	463	96	75	250	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	140		150	90		0	120		0	80		0
Storage Lanes	1		1	1		0	2		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95	0.95	0.97	0.95	0.95	1.00	0.95	0.95
Ped Bike Factor	1.00		0.98	1.00	1.00		1.00	1.00		1.00	1.00	
Frt			0.850		0.980			0.974			0.996	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1517	3539	1583	1752	3470	0	3467	3440	0	1787	3526	0
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1512	3539	1559	1751	3470	0	3459	3440	0	1780	3526	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			334		18			26			3	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		977			885			2254			891	
Travel Time (s)		22.2			20.1			51.2			20.3	
Confl. Peds. (#/hr)	5		3	3		5	2		9	9		2
Confl. Bikes (#/hr)			1						1			
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Heavy Vehicles (%)	19%	2%	2%	3%	2%	0%	1%	2%	1%	1%	2%	0%
Adj. Flow (vph)	21	776	786	110	300	47	403	472	98	77	255	7
Shared Lane Traffic (%)												
Lane Group Flow (vph)	21	776	786	110	347	0	403	570	0	77	262	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway 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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2		1	2		1	2	
Detector Template	Left	Thru	Right	Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100	20	20	100		20	100		20	100	
Trailing Detector (ft)	0	0	0	0	0		0	0		0	0	
Detector 1 Position(ft)	0	0	0	0	0		0	0		0	0	
Detector 1 Size(ft)	20	6	20	20	6		20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												

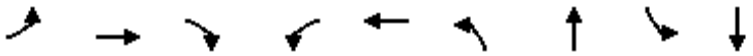
Lanes, Volumes, Timings
1: Washington Ave & San Leandro Blvd 05/10/2022

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Prot	NA	pm+ov	Prot	NA		Prot	NA		Prot	NA	
Protected Phases	5	2	3	1	6		3	8		7	4	
Permitted Phases			2									
Detector Phase	5	2	3	1	6		3	8		7	4	
Switch Phase												
Minimum Initial (s)	4.0	4.0	4.0	4.0	4.0		4.0	4.0		4.0	4.0	
Minimum Split (s)	8.0	34.9	8.0	8.0	32.9		8.0	33.6		8.0	34.0	
Total Split (s)	17.0	28.0	21.0	18.0	29.0		21.0	33.0		16.0	28.0	
Total Split (%)	17.9%	29.5%	22.1%	18.9%	30.5%		22.1%	34.7%		16.8%	29.5%	
Maximum Green (s)	13.0	23.1	17.0	14.0	24.1		17.0	28.4		12.0	24.0	
Yellow Time (s)	3.0	3.9	3.0	3.0	3.9		3.0	3.6		3.0	3.0	
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Lost Time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Lead/Lag	Lead	Lag	Lead	Lead	Lag		Lead	Lag		Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes		Yes	Yes		Yes	Yes	
Vehicle Extension (s)	2.0	3.0	2.0	2.0	3.0		2.0	3.0		2.0	3.0	
Minimum Gap (s)	2.0	2.0	2.0	2.0	2.0		2.0	2.0		2.0	2.0	
Time Before Reduce (s)	3.0	13.0	7.0	5.0	12.0		7.0	9.0		6.0	9.0	
Time To Reduce (s)	4.0	15.0	8.0	6.0	13.0		8.0	10.0		7.0	11.0	
Recall Mode	None	Min	None	None	C-Min		None	None		None	None	
Walk Time (s)		7.0			7.0			7.0			7.0	
Flash Dont Walk (s)		23.0			21.0			22.0			23.0	
Pedestrian Calls (#/hr)		5			5			5			5	
Act Effct Green (s)	5.9	39.8	56.2	10.2	47.5		15.5	22.8		8.5	14.6	
Actuated g/C Ratio	0.06	0.42	0.59	0.11	0.50		0.16	0.24		0.09	0.15	
v/c Ratio	0.22	0.52	0.74	0.59	0.20		0.71	0.67		0.48	0.48	
Control Delay	47.2	25.9	14.3	52.6	15.9		45.0	35.4		50.7	38.2	
Queue Delay	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	
Total Delay	47.2	25.9	14.3	52.6	15.9		45.0	35.4		50.7	38.2	
LOS	D	C	B	D	B		D	D		D	D	
Approach Delay		20.4			24.7			39.4			41.0	
Approach LOS		C			C			D			D	

Intersection Summary			
Area Type:	Other		
Cycle Length: 95			
Actuated Cycle Length: 95			
Offset: 39 (41%), Referenced to phase 6:WBT, Start of Green			
Natural Cycle: 85			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.74			
Intersection Signal Delay: 28.6		Intersection LOS: C	
Intersection Capacity Utilization 72.3%		ICU Level of Service C	
Analysis Period (min) 15			

Splits and Phases: 1: Washington Ave & San Leandro Blvd

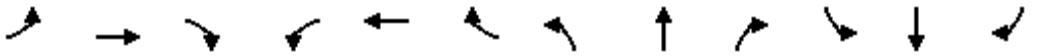




Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	21	776	786	110	347	403	570	77	262
v/c Ratio	0.22	0.52	0.74	0.59	0.20	0.71	0.67	0.48	0.48
Control Delay	47.2	25.9	14.3	52.6	15.9	45.0	35.4	50.7	38.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	47.2	25.9	14.3	52.6	15.9	45.0	35.4	50.7	38.2
Queue Length 50th (ft)	12	183	152	64	48	117	163	45	78
Queue Length 95th (ft)	35	#347	#360	114	117	166	197	87	101
Internal Link Dist (ft)		897			805		2174		811
Turn Bay Length (ft)	140		150	90		120		80	
Base Capacity (vph)	207	1484	1082	258	1743	620	1046	225	893
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.10	0.52	0.73	0.43	0.20	0.65	0.54	0.34	0.29

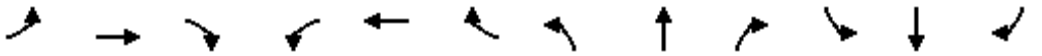
Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	21	760	770	108	294	46	395	463	96	75	250	7
Future Volume (vph)	21	760	770	108	294	46	395	463	96	75	250	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Lane Util. Factor	1.00	0.95	1.00	1.00	0.95		0.97	0.95		1.00	0.95	
Frpb, ped/bikes	1.00	1.00	0.99	1.00	1.00		1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00	
Frt	1.00	1.00	0.85	1.00	0.98		1.00	0.97		1.00	1.00	
Flt Protected	0.95	1.00	1.00	0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1517	3539	1566	1752	3469		3467	3441		1787	3526	
Flt Permitted	0.95	1.00	1.00	0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1517	3539	1566	1752	3469		3467	3441		1787	3526	
Peak-hour factor, PHF	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Adj. Flow (vph)	21	776	786	110	300	47	403	472	98	77	255	7
RTOR Reduction (vph)	0	0	145	0	10	0	0	20	0	0	3	0
Lane Group Flow (vph)	21	776	641	110	337	0	403	550	0	77	259	0
Confl. Peds. (#/hr)	5		3	3		5	2		9	9		2
Confl. Bikes (#/hr)			1						1			
Heavy Vehicles (%)	19%	2%	2%	3%	2%	0%	1%	2%	1%	1%	2%	0%
Turn Type	Prot	NA	pm+ov	Prot	NA		Prot	NA		Prot	NA	
Protected Phases	5	2	3	1	6		3	8		7	4	
Permitted Phases			2									
Actuated Green, G (s)	2.9	38.2	53.7	9.0	44.3		15.5	22.8		7.5	15.4	
Effective Green, g (s)	2.9	38.2	53.7	9.0	44.3		15.5	22.8		7.5	15.4	
Actuated g/C Ratio	0.03	0.40	0.57	0.09	0.47		0.16	0.24		0.08	0.16	
Clearance Time (s)	4.0	4.9	4.0	4.0	4.9		4.0	4.6		4.0	4.0	
Vehicle Extension (s)	2.0	3.0	2.0	2.0	3.0		2.0	3.0		2.0	3.0	
Lane Grp Cap (vph)	46	1423	885	165	1617		565	825		141	571	
v/s Ratio Prot	0.01	0.22	c0.12	c0.06	0.10		0.12	c0.16		0.04	0.07	
v/s Ratio Perm			0.29									
v/c Ratio	0.46	0.55	0.72	0.67	0.21		0.71	0.67		0.55	0.45	
Uniform Delay, d1	45.3	21.7	15.2	41.6	15.0		37.6	32.7		42.1	36.0	
Progression Factor	1.00	1.00	1.00	1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	2.6	0.4	2.5	7.6	0.3		3.5	2.1		2.3	0.6	
Delay (s)	47.9	22.2	17.7	49.2	15.3		41.2	34.7		44.4	36.6	
Level of Service	D	C	B	D	B		D	C		D	D	
Approach Delay (s)		20.3			23.4			37.4			38.4	
Approach LOS		C			C			D			D	

Intersection Summary			
HCM 2000 Control Delay	27.5	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.73		
Actuated Cycle Length (s)	95.0	Sum of lost time (s)	17.5
Intersection Capacity Utilization	72.3%	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 (veh/h)	21	760	770	108	294	46	395	463	96	75	250	7
Future Volume (veh/h)	21	760	770	108	294	46	395	463	96	75	250	7
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	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	1618	1870	1870	1856	1870	1900	1885	1870	1885	1885	1870	1900
Adj Flow Rate, veh/h	21	776	786	110	300	47	403	472	0	77	255	0
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	19	2	2	3	2	0	1	2	1	1	2	0
Cap, veh/h	28	864	597	138	935	145	480	771		99	478	
Arrive On Green	0.02	0.24	0.24	0.08	0.30	0.30	0.14	0.22	0.00	0.06	0.13	0.00
Sat Flow, veh/h	1541	3554	1555	1767	3081	477	3483	3647	0	1795	3647	0
Grp Volume(v), veh/h	21	776	786	110	172	175	403	472	0	77	255	0
Grp Sat Flow(s),veh/h/ln	1541	1777	1555	1767	1777	1782	1742	1777	0	1795	1777	0
Q Serve(g_s), s	1.3	20.1	23.1	5.8	7.1	7.2	10.7	11.4	0.0	4.0	6.4	0.0
Cycle Q Clear(g_c), s	1.3	20.1	23.1	5.8	7.1	7.2	10.7	11.4	0.0	4.0	6.4	0.0
Prop In Lane	1.00		1.00	1.00		0.27	1.00		0.00	1.00		0.00
Lane Grp Cap(c), veh/h	28	864	597	138	539	541	480	771		99	478	
V/C Ratio(X)	0.76	0.90	1.32	0.79	0.32	0.32	0.84	0.61		0.77	0.53	
Avail Cap(c_a), veh/h	211	864	597	260	539	541	623	1062		227	898	
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	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	46.4	34.8	29.5	43.0	25.5	25.6	39.9	33.6	0.0	44.3	38.3	0.0
Incr Delay (d2), s/veh	14.6	12.2	154.5	3.9	1.5	1.6	6.3	0.8	0.0	4.8	0.9	0.0
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(50%),veh/ln	0.6	9.9	38.6	2.7	3.2	3.3	4.9	4.9	0.0	1.9	2.8	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	61.1	47.0	184.0	46.9	27.0	27.1	46.3	34.4	0.0	49.0	39.2	0.0
LnGrp LOS	E	D	F	D	C	C	D	C		D	D	
Approach Vol, veh/h		1583			457			875	A		332	A
Approach Delay, s/veh		115.2			31.9			39.8			41.5	
Approach LOS		F			C			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.4	28.0	17.1	17.4	5.7	33.7	9.3	25.2
Change Period (Y+Rc), s	4.0	4.9	4.0	* 4.6	4.0	4.9	4.0	4.6
Max Green Setting (Gmax), s	14.0	23.1	17.0	* 24	13.0	24.1	12.0	28.4
Max Q Clear Time (g_c+I1), s	7.8	25.1	12.7	8.4	3.3	9.2	6.0	13.4
Green Ext Time (p_c), s	0.1	0.0	0.4	1.4	0.0	1.7	0.0	2.7

Intersection Summary	
HCM 6th Ctrl Delay	75.6
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.

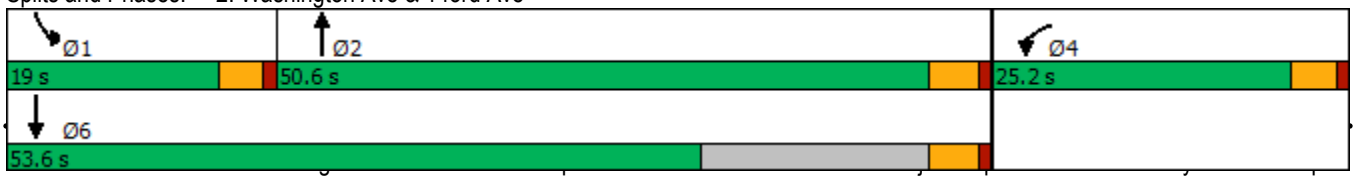
Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	159	90	872	214	111	1088
Future Volume (vph)	159	90	872	214	111	1088
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	90		0	100	
Storage Lanes	2	1		0	1	
Taper Length (ft)	25				25	
Lane Util. Factor	0.97	0.95	0.95	0.95	1.00	0.95
Ped Bike Factor	0.99		1.00		1.00	
Frt	0.946		0.970			
Flt Protected	0.969				0.950	
Satd. Flow (prot)	3295	0	3452	0	1719	3574
Flt Permitted	0.969				0.950	
Satd. Flow (perm)	3295	0	3452	0	1718	3574
Right Turn on Red		Yes		Yes		
Satd. Flow (RTOR)	97		44			
Link Speed (mph)	30		30			30
Link Distance (ft)	1330		895			529
Travel Time (s)	30.2		20.3			12.0
Confl. Peds. (#/hr)		1		1	1	
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles (%)	1%	3%	1%	1%	5%	1%
Adj. Flow (vph)	171	97	938	230	119	1170
Shared Lane Traffic (%)						
Lane Group Flow (vph)	268	0	1168	0	119	1170
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	24		12			12
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Number of Detectors	1		2		1	2
Detector Template	Left		Thru		Left	Thru
Leading Detector (ft)	20		100		20	100
Trailing Detector (ft)	0		0		0	0
Detector 1 Position(ft)	0		0		0	0
Detector 1 Size(ft)	20		6		20	6
Detector 1 Type	Cl+Ex		Cl+Ex		Cl+Ex	Cl+Ex
Detector 1 Channel						
Detector 1 Extend (s)	0.0		0.0		0.0	0.0
Detector 1 Queue (s)	0.0		0.0		0.0	0.0
Detector 1 Delay (s)	0.0		0.0		0.0	0.0
Detector 2 Position(ft)			94			94
Detector 2 Size(ft)			6			6
Detector 2 Type			Cl+Ex			Cl+Ex
Detector 2 Channel						
Detector 2 Extend (s)			0.0			0.0

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Turn Type	Prot		NA		Prot	NA
Protected Phases	4		2		1	6
Permitted Phases						
Detector Phase	4		2		1	6
Switch Phase						
Minimum Initial (s)	6.0		6.0		4.0	6.0
Minimum Split (s)	26.2		21.6		8.0	10.6
Total Split (s)	25.2		50.6		19.0	53.6
Total Split (%)	26.6%		53.4%		20.0%	56.5%
Maximum Green (s)	21.0		46.0		15.0	49.0
Yellow Time (s)	3.2		3.6		3.0	3.6
All-Red Time (s)	1.0		1.0		1.0	1.0
Lost Time Adjust (s)	0.0		0.0		0.0	0.0
Total Lost Time (s)	4.2		4.6		4.0	4.6
Lead/Lag			Lag		Lead	
Lead-Lag Optimize?			Yes		Yes	
Vehicle Extension (s)	2.0		2.0		2.0	2.0
Minimum Gap (s)	2.0		3.0		2.0	3.0
Time Before Reduce (s)	7.0		22.0		5.0	22.0
Time To Reduce (s)	9.0		30.0		6.0	30.0
Recall Mode	None		Min		None	Min
Walk Time (s)	7.0		7.0			
Flash Dont Walk (s)	15.0		10.0			
Pedestrian Calls (#/hr)	5		5			
Act Effct Green (s)	9.9		29.2		9.5	39.9
Actuated g/C Ratio	0.17		0.49		0.16	0.67
v/c Ratio	0.43		0.68		0.44	0.49
Control Delay	18.7		15.2		33.3	5.7
Queue Delay	0.0		0.0		0.0	0.0
Total Delay	18.7		15.2		33.3	5.7
LOS	B		B		C	A
Approach Delay	18.7		15.2			8.2
Approach LOS	B		B			A

Intersection Summary			
Area Type:	Other		
Cycle Length: 94.8			
Actuated Cycle Length: 59.7			
Natural Cycle: 65			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.68			
Intersection Signal Delay: 12.3		Intersection LOS: B	
Intersection Capacity Utilization 55.5%		ICU Level of Service B	
Analysis Period (min) 15			

Splits and Phases: 2: Washington Ave & 143rd Ave



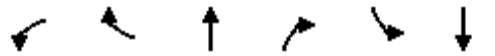
Lane Group	WBL	NBT	SBL	SBT
Lane Group Flow (vph)	268	1168	119	1170
v/c Ratio	0.43	0.68	0.44	0.49
Control Delay	18.7	15.2	33.3	5.7
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	18.7	15.2	33.3	5.7
Queue Length 50th (ft)	26	145	36	68
Queue Length 95th (ft)	78	347	122	200
Internal Link Dist (ft)	1250	815		449
Turn Bay Length (ft)			100	
Base Capacity (vph)	1361	2764	483	3337
Starvation Cap Reductn	0	0	0	0
Spillback Cap Reductn	0	0	0	0
Storage Cap Reductn	0	0	0	0
Reduced v/c Ratio	0.20	0.42	0.25	0.35

Intersection Summary

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	159	90	872	214	111	1088
Future Volume (vph)	159	90	872	214	111	1088
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.2		4.6		4.0	4.6
Lane Util. Factor	0.97		0.95		1.00	0.95
Frpb, ped/bikes	0.99		1.00		1.00	1.00
Flpb, ped/bikes	1.00		1.00		1.00	1.00
Frt	0.95		0.97		1.00	1.00
Flt Protected	0.97		1.00		0.95	1.00
Satd. Flow (prot)	3295		3454		1719	3574
Flt Permitted	0.97		1.00		0.95	1.00
Satd. Flow (perm)	3295		3454		1719	3574
Peak-hour factor, PHF	0.93	0.93	0.93	0.93	0.93	0.93
Adj. Flow (vph)	171	97	938	230	119	1170
RTOR Reduction (vph)	81	0	22	0	0	0
Lane Group Flow (vph)	187	0	1146	0	119	1170
Confl. Peds. (#/hr)		1		1	1	
Heavy Vehicles (%)	1%	3%	1%	1%	5%	1%
Turn Type	Prot		NA		Prot	NA
Protected Phases	4		2		1	6
Permitted Phases						
Actuated Green, G (s)	9.9		29.2		7.6	40.8
Effective Green, g (s)	9.9		29.2		7.6	40.8
Actuated g/C Ratio	0.17		0.49		0.13	0.69
Clearance Time (s)	4.2		4.6		4.0	4.6
Vehicle Extension (s)	2.0		2.0		2.0	2.0
Lane Grp Cap (vph)	548		1695		219	2450
v/s Ratio Prot	c0.06		c0.33		0.07	c0.33
v/s Ratio Perm						
v/c Ratio	0.34		0.68		0.54	0.48
Uniform Delay, d1	21.9		11.5		24.3	4.4
Progression Factor	1.00		1.00		1.00	1.00
Incremental Delay, d2	0.1		0.8		1.5	0.1
Delay (s)	22.1		12.4		25.8	4.4
Level of Service	C		B		C	A
Approach Delay (s)	22.1		12.4			6.4
Approach LOS	C		B			A

Intersection Summary			
HCM 2000 Control Delay	10.5	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.59		
Actuated Cycle Length (s)	59.5	Sum of lost time (s)	12.8
Intersection Capacity Utilization	55.5%	ICU Level of Service	B
Analysis Period (min)	15		

c Critical Lane Group



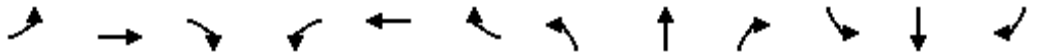
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	159	90	872	214	111	1088
Future Volume (veh/h)	159	90	872	214	111	1088
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No			No
Adj Sat Flow, veh/h/ln	1885	1856	1885	1885	1826	1885
Adj Flow Rate, veh/h	134	0	938	230	119	1170
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	1	3	1	1	5	1
Cap, veh/h	211		1335	327	152	2356
Arrive On Green	0.12	0.00	0.47	0.47	0.09	0.66
Sat Flow, veh/h	1795	1572	2946	698	1739	3676
Grp Volume(v), veh/h	134	0	589	579	119	1170
Grp Sat Flow(s),veh/h/ln	1795	1572	1791	1759	1739	1791
Q Serve(g_s), s	2.8	0.0	10.2	10.2	2.6	6.5
Cycle Q Clear(g_c), s	2.8	0.0	10.2	10.2	2.6	6.5
Prop In Lane	1.00	1.00		0.40	1.00	
Lane Grp Cap(c), veh/h	211		838	823	152	2356
V/C Ratio(X)	0.63		0.70	0.70	0.78	0.50
Avail Cap(c_a), veh/h	963		2103	2065	666	4481
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	16.5	0.0	8.3	8.3	17.5	3.4
Incr Delay (d2), s/veh	1.2	0.0	0.4	0.4	3.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	0.0	2.6	2.6	1.0	0.8
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	17.7	0.0	8.7	8.7	20.8	3.5
LnGrp LOS	B		A	A	C	A
Approach Vol, veh/h	134	A	1168			1289
Approach Delay, s/veh	17.7		8.7			5.1
Approach LOS	B		A			A

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	7.4	22.9		8.8		30.4
Change Period (Y+Rc), s	4.0	4.6		* 4.2		4.6
Max Green Setting (Gmax), s	15.0	46.0		* 21		49.0
Max Q Clear Time (g_c+I1), s	4.6	12.2		4.8		8.5
Green Ext Time (p_c), s	0.1	6.1		0.1		7.1

Intersection Summary	
HCM 6th Ctrl Delay	7.3
HCM 6th LOS	A

Notes

User approved pedestrian interval to be less than phase max green.
User approved volume balancing among the lanes for turning movement.
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	179	773	437	316	638	168	229	701	307	177	850	242
Future Volume (vph)	179	773	437	316	638	168	229	701	307	177	850	242
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	140		170	225		25	145		225	195		100
Storage Lanes	2		1	2		1	2		1	2		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.91	1.00
Ped Bike Factor	0.99		0.97	1.00		0.98	1.00		0.98	1.00		0.99
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3502	3574	1568	3502	3505	1568	3242	3574	1599	3467	5085	1583
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3476	3574	1528	3489	3505	1532	3232	3574	1575	3460	5085	1560
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			205			118			270			169
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		528			456			1136			1014	
Travel Time (s)		12.0			10.4			25.8			23.0	
Confl. Peds. (#/hr)	9		9	9		9	9		3	3		9
Confl. Bikes (#/hr)			3									
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	0%	1%	3%	0%	3%	3%	8%	1%	1%	1%	2%	2%
Adj. Flow (vph)	186	805	455	329	665	175	239	730	320	184	885	252
Shared Lane Traffic (%)												
Lane Group Flow (vph)	186	805	455	329	665	175	239	730	320	184	885	252
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		24			24			24			24	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane					Yes							
Headway 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
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2	1	1	2	1	1	2	1	1	2	1
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Leading Detector (ft)	20	100	20	20	100	20	20	100	20	20	100	20
Trailing Detector (ft)	0	0	0	0	0	0	0	0	0	0	0	0
Detector 1 Position(ft)	0	0	0	0	0	0	0	0	0	0	0	0
Detector 1 Size(ft)	20	6	20	20	6	20	20	6	20	20	6	20
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												

Lanes, Volumes, Timings
3: Washington Ave & Halcyon Dr

05/10/2022

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Free
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			Free
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	
Switch Phase												
Minimum Initial (s)	8.0	12.0	12.0	4.0	8.0	8.0	4.0	9.0	9.0	5.0	9.0	
Minimum Split (s)	13.1	33.1	33.1	9.4	33.4	33.4	9.1	37.1	37.1	10.1	35.1	
Total Split (s)	18.0	39.0	39.0	18.0	39.0	39.0	20.0	44.0	44.0	15.0	39.0	
Total Split (%)	15.5%	33.6%	33.6%	15.5%	33.6%	33.6%	17.2%	37.9%	37.9%	12.9%	33.6%	
Maximum Green (s)	12.9	33.9	33.9	12.6	33.6	33.6	14.9	38.9	38.9	9.9	33.9	
Yellow Time (s)	4.1	4.1	4.1	4.4	4.4	4.4	4.1	4.1	4.1	4.1	4.1	
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Minimum Gap (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Time Before Reduce (s)	4.0	7.0	7.0	3.0	6.0	6.0	4.0	5.0	5.0	5.0	7.0	
Time To Reduce (s)	5.0	9.0	9.0	4.0	8.0	8.0	5.0	7.0	7.0	7.0	10.0	
Recall Mode	None	None	None	None	None	None	None	C-Min	C-Min	None	Min	
Walk Time (s)		6.0	6.0		6.0	6.0		6.0	6.0		6.0	
Flash Dont Walk (s)		22.0	22.0		22.0	22.0		26.0	26.0		24.0	
Pedestrian Calls (#/hr)		5	5		5	5		5	5		5	
Act Effct Green (s)	11.9	32.3	32.3	15.2	35.7	35.7	13.7	37.7	37.7	10.0	34.0	116.0
Actuated g/C Ratio	0.10	0.28	0.28	0.13	0.31	0.31	0.12	0.32	0.32	0.09	0.29	1.00
v/c Ratio	0.52	0.81	0.79	0.72	0.62	0.32	0.62	0.63	0.46	0.62	0.59	0.16
Control Delay	54.5	46.1	31.8	58.0	37.3	12.6	56.1	36.5	8.4	60.7	37.7	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	54.5	46.1	31.8	58.0	37.3	12.6	56.1	36.5	8.4	60.7	37.7	0.2
LOS	D	D	C	E	D	B	E	D	A	E	D	A
Approach Delay		42.7			39.4			33.2			33.7	
Approach LOS		D			D			C			C	

Intersection Summary

Area Type: Other

Cycle Length: 116

Actuated Cycle Length: 116

Offset: 98 (84%), Referenced to phase 2:NBT, Start of Green

Natural Cycle: 95

Control Type: Actuated-Coordinated

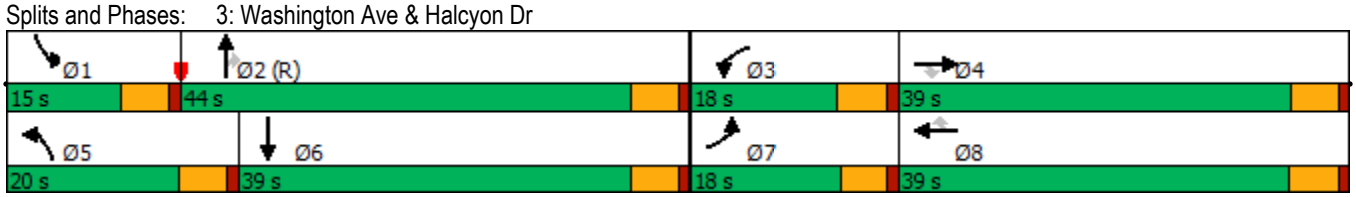
Maximum v/c Ratio: 0.81

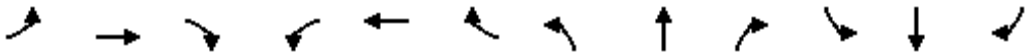
Intersection Signal Delay: 37.3 — Intersection LOS: D

Intersection Capacity Utilization 79.9% — ICU Level of Service D

Analysis Period (min) 15

Splits and Phases: 3: Washington Ave & Halcyon Dr

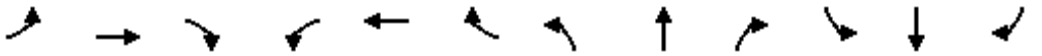




Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	186	805	455	329	665	175	239	730	320	184	885	252
v/c Ratio	0.52	0.81	0.79	0.72	0.62	0.32	0.62	0.63	0.46	0.62	0.59	0.16
Control Delay	54.5	46.1	31.8	58.0	37.3	12.6	56.1	36.5	8.4	60.7	37.7	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	54.5	46.1	31.8	58.0	37.3	12.6	56.1	36.5	8.4	60.7	37.7	0.2
Queue Length 50th (ft)	68	285	174	119	209	29	88	258	28	69	223	0
Queue Length 95th (ft)	105	364	312	#205	294	89	130	303	98	107	253	0
Internal Link Dist (ft)		448			376			1056			934	
Turn Bay Length (ft)	140		170	225		25	145		225	195		100
Base Capacity (vph)	394	1050	593	460	1088	557	416	1236	721	302	1573	1560
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.47	0.77	0.77	0.72	0.61	0.31	0.57	0.59	0.44	0.61	0.56	0.16

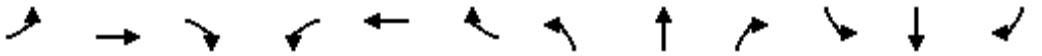
Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	179	773	437	316	638	168	229	701	307	177	850	242
Future Volume (vph)	179	773	437	316	638	168	229	701	307	177	850	242
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	4.0
Lane Util. Factor	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.95	1.00	0.97	0.91	1.00
Frpb, ped/bikes	1.00	1.00	0.97	1.00	1.00	0.98	1.00	1.00	0.98	1.00	1.00	0.99
Flpb, ped/bikes	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3502	3574	1528	3502	3505	1532	3242	3574	1575	3467	5085	1560
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3502	3574	1528	3502	3505	1532	3242	3574	1575	3467	5085	1560
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	186	805	455	329	665	175	239	730	320	184	885	252
RTOR Reduction (vph)	0	0	148	0	0	82	0	0	182	0	0	0
Lane Group Flow (vph)	186	805	307	329	665	93	239	730	138	184	885	252
Confl. Peds. (#/hr)	9		9	9		9	9		3	3		9
Confl. Bikes (#/hr)			3									
Heavy Vehicles (%)	0%	1%	3%	0%	3%	3%	8%	1%	1%	1%	2%	2%
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Free
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			Free
Actuated Green, G (s)	11.9	32.4	32.4	15.2	35.7	35.7	13.7	37.7	37.7	10.0	34.0	116.0
Effective Green, g (s)	11.9	32.4	32.4	15.2	35.7	35.7	13.7	37.7	37.7	10.0	34.0	116.0
Actuated g/C Ratio	0.10	0.28	0.28	0.13	0.31	0.31	0.12	0.33	0.33	0.09	0.29	1.00
Clearance Time (s)	5.1	5.1	5.1	5.4	5.4	5.4	5.1	5.1	5.1	5.1	5.1	
Vehicle Extension (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Lane Grp Cap (vph)	359	998	426	458	1078	471	382	1161	511	298	1490	1560
v/s Ratio Prot	0.05	c0.23		c0.09	c0.19		c0.07	c0.20		0.05	0.17	
v/s Ratio Perm			0.20			0.06			0.09			0.16
v/c Ratio	0.52	0.81	0.72	0.72	0.62	0.20	0.63	0.63	0.27	0.62	0.59	0.16
Uniform Delay, d1	49.3	38.9	37.7	48.3	34.3	29.6	48.7	33.2	29.0	51.2	35.1	0.0
Progression 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
Incremental Delay, d2	1.7	5.1	6.3	5.7	1.2	0.3	3.6	2.6	1.3	4.3	0.7	0.2
Delay (s)	51.0	44.0	44.1	54.0	35.5	29.9	52.3	35.8	30.3	55.5	35.8	0.2
Level of Service	D	D	D	D	D	C	D	D	C	E	D	A
Approach Delay (s)		44.9			39.9			37.5			31.8	
Approach LOS		D			D			D			C	

Intersection Summary			
HCM 2000 Control Delay	38.6	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.72		
Actuated Cycle Length (s)	116.0	Sum of lost time (s)	20.7
Intersection Capacity Utilization	79.9%	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)	179	773	437	316	638	168	229	701	307	177	850	242
Future Volume (veh/h)	179	773	437	316	638	168	229	701	307	177	850	242
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.99	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	1900	1885	1856	1900	1856	1856	1781	1885	1885	1885	1870	1870
Adj Flow Rate, veh/h	186	805	455	329	665	175	239	730	0	184	885	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	1	3	0	3	3	8	1	1	1	2	2
Cap, veh/h	253	1047	449	381	1168	517	304	1246		245	1663	
Arrive On Green	0.07	0.29	0.29	0.11	0.33	0.33	0.09	0.35	0.00	0.07	0.33	0.00
Sat Flow, veh/h	3510	3582	1536	3510	3526	1560	3291	3582	1598	3483	5106	1585
Grp Volume(v), veh/h	186	805	455	329	665	175	239	730	0	184	885	0
Grp Sat Flow(s),veh/h/ln	1755	1791	1536	1755	1763	1560	1646	1791	1598	1742	1702	1585
Q Serve(g_s), s	6.0	23.8	33.9	10.7	18.0	9.8	8.2	19.4	0.0	6.0	16.4	0.0
Cycle Q Clear(g_c), s	6.0	23.8	33.9	10.7	18.0	9.8	8.2	19.4	0.0	6.0	16.4	0.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	253	1047	449	381	1168	517	304	1246		245	1663	
V/C Ratio(X)	0.74	0.77	1.01	0.86	0.57	0.34	0.79	0.59		0.75	0.53	
Avail Cap(c_a), veh/h	390	1047	449	381	1168	517	423	1246		297	1663	
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	0.00	0.63	0.63	0.00
Uniform Delay (d), s/veh	52.7	37.5	41.0	50.8	32.0	29.2	51.5	31.0	0.0	52.9	31.9	0.0
Incr Delay (d2), s/veh	5.8	3.8	46.0	18.5	0.8	0.5	8.0	2.0	0.0	6.3	0.3	0.0
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(50%),veh/ln	2.9	10.9	18.4	5.7	7.8	3.8	3.7	8.7	0.0	2.8	6.8	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	58.5	41.2	87.0	69.4	32.8	29.8	59.5	33.0	0.0	59.2	32.2	0.0
LnGrp LOS	E	D	F	E	C	C	E	C		E	C	
Approach Vol, veh/h		1446			1169			969	A		1069	A
Approach Delay, s/veh		57.9			42.6			39.5			36.8	
Approach LOS		E			D			D			D	

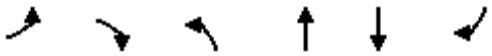
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.2	45.5	18.0	39.3	15.8	42.9	13.5	43.8
Change Period (Y+Rc), s	5.1	5.1	5.4	* 5.4	5.1	5.1	5.1	5.4
Max Green Setting (Gmax), s	9.9	38.9	12.6	* 34	14.9	33.9	12.9	33.6
Max Q Clear Time (g_c+I1), s	8.0	21.4	12.7	35.9	10.2	18.4	8.0	20.0
Green Ext Time (p_c), s	0.2	6.4	0.0	0.0	0.5	7.1	0.4	5.8

Intersection Summary	
HCM 6th Ctrl Delay	45.4
HCM 6th LOS	D

Notes

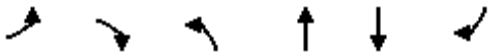
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR, SBR] is excluded from calculations of the approach delay and intersection delay.



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	7	22	0	959	1169	1
Future Volume (vph)	7	22	0	959	1169	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	0.95	0.95	0.95	0.95
Frt	0.899					
Flt Protected	0.988					
Satd. Flow (prot)	1655	0	0	3539	3539	0
Flt Permitted	0.988					
Satd. Flow (perm)	1655	0	0	3539	3539	0
Link Speed (mph)	30			30	30	
Link Distance (ft)	355			103	2254	
Travel Time (s)	8.1			2.3	51.2	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	8	24	0	1042	1271	1
Shared Lane Traffic (%)						
Lane Group Flow (vph)	32	0	0	1042	1272	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			24	24	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop			Free	Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 42.3%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	7	22	0	959	1169	1
Future Volume (Veh/h)	7	22	0	959	1169	1
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	8	24	0	1042	1271	1
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)				632		
pX, platoon unblocked	0.79					
vC, conflicting volume	1792	636	1272			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1480	636	1272			
tC, single (s)	6.8	6.9	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	91	94	100			
cM capacity (veh/h)	92	421	542			

Direction, Lane #	EB 1	NB 1	NB 2	SB 1	SB 2
Volume Total	32	347	695	847	425
Volume Left	8	0	0	0	0
Volume Right	24	0	0	0	1
cSH	223	542	1700	1700	1700
Volume to Capacity	0.14	0.00	0.41	0.50	0.25
Queue Length 95th (ft)	12	0	0	0	0
Control Delay (s)	23.9	0.0	0.0	0.0	0.0
Lane LOS	C				
Approach Delay (s)	23.9	0.0		0.0	
Approach LOS	C				

Intersection Summary			
Average Delay	0.3		
Intersection Capacity Utilization	42.3%	ICU Level of Service	A
Analysis Period (min)	15		

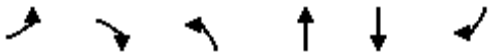
Intersection	
Int Delay, s/veh	0.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	7	22	0	959	1169	1
Future Vol, veh/h	7	22	0	959	1169	1
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	-	-	-	-	-
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	8	24	0	1042	1271	1

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1793	636	1272	0	-	0
Stage 1	1272	-	-	-	-	-
Stage 2	521	-	-	-	-	-
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	72	421	542	-	-	-
Stage 1	227	-	-	-	-	-
Stage 2	561	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	72	421	542	-	-	-
Mov Cap-2 Maneuver	72	-	-	-	-	-
Stage 1	227	-	-	-	-	-
Stage 2	561	-	-	-	-	-

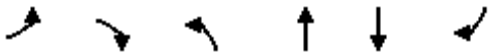
Approach	EB	NB	SB
HCM Control Delay, s	27.1	0	0
HCM LOS	D		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	542	-	194	-	-
HCM Lane V/C Ratio	-	-	0.162	-	-
HCM Control Delay (s)	0	-	27.1	-	-
HCM Lane LOS	A	-	D	-	-
HCM 95th %tile Q(veh)	0	-	0.6	-	-



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	0	7	3	959	1191	0
Future Volume (vph)	0	7	3	959	1191	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	0.95	0.95	0.95	1.00
Frt	0.865					
Flt Protected						
Satd. Flow (prot)	1611	0	0	3539	3539	0
Flt Permitted						
Satd. Flow (perm)	1611	0	0	3539	3539	0
Link Speed (mph)	30			30	30	
Link Distance (ft)	128			529	103	
Travel Time (s)	2.9			12.0	2.3	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	8	3	1042	1295	0
Shared Lane Traffic (%)						
Lane Group Flow (vph)	8	0	0	1045	1295	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop			Free	Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 42.9%		ICU Level of Service A	
Analysis Period (min) 15			



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	0	7	3	959	1191	0
Future Volume (Veh/h)	0	7	3	959	1191	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	8	3	1042	1295	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)				529		
pX, platoon unblocked	0.78					
vC, conflicting volume	1822	648	1295			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1499	648	1295			
tC, single (s)	6.8	6.9	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	98	99			
cM capacity (veh/h)	88	413	531			

Direction, Lane #	EB 1	NB 1	NB 2	SB 1	SB 2
Volume Total	8	350	695	648	648
Volume Left	0	3	0	0	0
Volume Right	8	0	0	0	0
cSH	413	531	1700	1700	1700
Volume to Capacity	0.02	0.01	0.41	0.38	0.38
Queue Length 95th (ft)	1	0	0	0	0
Control Delay (s)	13.9	0.2	0.0	0.0	0.0
Lane LOS	B	A			
Approach Delay (s)	13.9	0.1		0.0	
Approach LOS	B				

Intersection Summary			
Average Delay	0.1		
Intersection Capacity Utilization	42.9%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	7	3	959	1191	0
Future Vol, veh/h	0	7	3	959	1191	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	-	-	-	-	-
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	0	8	3	1042	1295	0

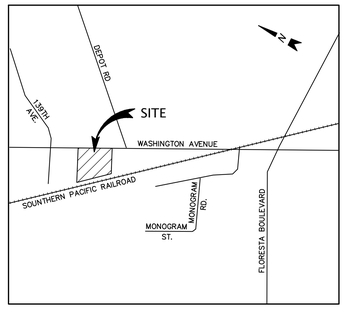
Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1822	648	1295	0	-	0
Stage 1	1295	-	-	-	-	-
Stage 2	527	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	69	413	531	-	-	0
Stage 1	221	-	-	-	-	0
Stage 2	557	-	-	-	-	0
Platoon blocked, %				-	-	
Mov Cap-1 Maneuver	68	413	531	-	-	-
Mov Cap-2 Maneuver	68	-	-	-	-	-
Stage 1	218	-	-	-	-	-
Stage 2	557	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	13.9	0.1	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT
Capacity (veh/h)	531	-	413	-
HCM Lane V/C Ratio	0.006	-	0.018	-
HCM Control Delay (s)	11.8	0.1	13.9	-
HCM Lane LOS	B	A	B	-
HCM 95th %tile Q(veh)	0	-	0.1	-

Appendix G - Truck Turning Templates

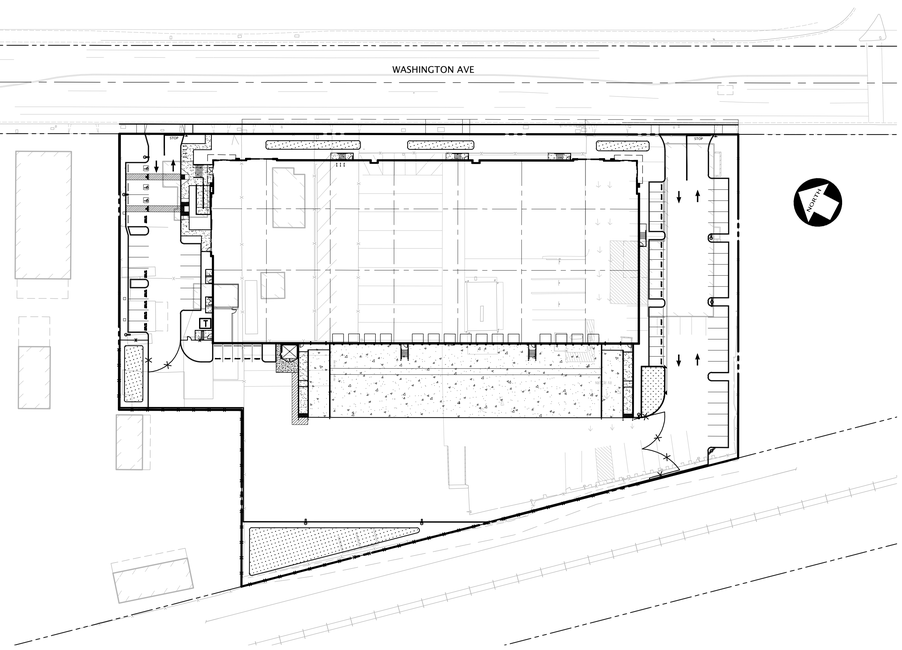
PRELIMINARY IMPROVEMENT PLANS
OF
14143 WASHINGTON AVENUE
FOR
FIRST INDUSTRIAL REALTY TRUST, INC
SAN LEANDRO, CALIFORNIA



VICINITY MAP
N.T.S.

SHEET INDEX

SHEET	DESCRIPTION
CIVIL	
C0.0	COVER SHEET
C1.0	TOPOGRAPHIC SURVEY
C1.1	TREE REMOVAL PLAN
C2.0	SIGNING AND STRIPING PLAN
C3.0	PRELIMINARY GRADING AND DRAINAGE PLAN
C3.1	SECTIONS
C4.0	PRELIMINARY UTILITY PLAN
C5.0	PRELIMINARY STORM WATER QUALITY CONTROL PLAN
C6.0	FIRE TRUCK CIRCULATION
C6.1	WB-50 TRUCK TURNING - EAST LOADING DOCK
C6.2	WB-50 TRUCK TURNING - WEST LOADING DOCK
C6.3	WB-67 TRUCK TURNING - EAST LOADING DOCK
C6.4	WB-67 TRUCK TURNING - WEST LOADING DOCK



SITE MAP
SCALE: 1"=50'

DEVELOPER
FIRST INDUSTRIAL REALTY TRUST, INC
ATTN: RICHARD POGLIS
3620 HAPPY VALLEY RD, SUITE 201
LAFAYETTE, CA 94569

ARCHITECT
HPA, INC.
ATTN: DEBIE TRIANI, AIA
600 GRAND AVENUE, SUITE 302
OAKLAND, CA 94610
949-862-2128

CIVIL ENGINEER
KIER & WRIGHT CIVIL ENGINEERS & SURVEYORS, INC.
ATTN: EMAD SARIEDDINE, P.E.
2850 COLLIER CANYON ROAD
LIVERMORE, CA 94551
925-245-8788

811 Know what's below. Call before you dig.

NO.	REVISION	BY

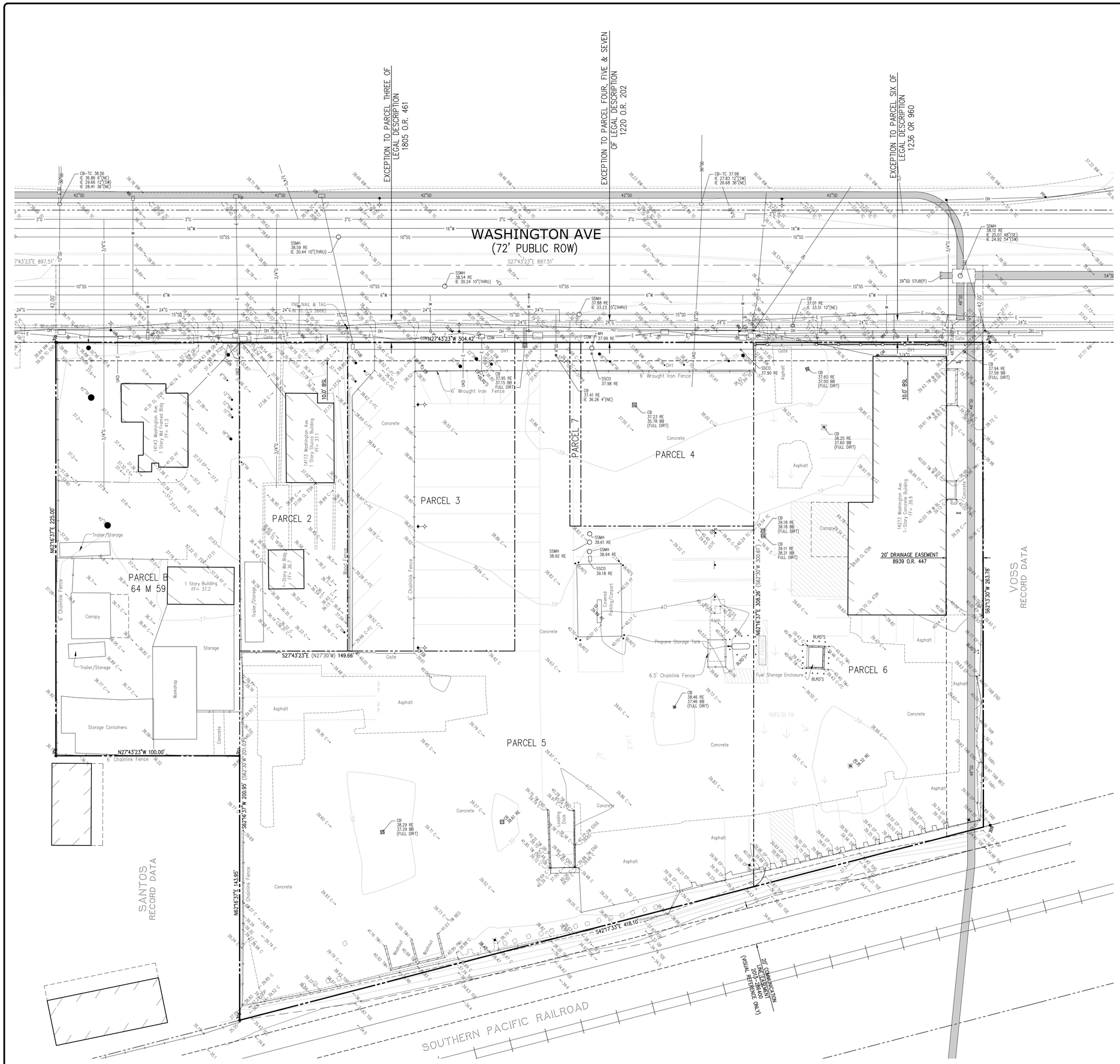
NO.	REVISION	BY
	PLANNING RESUBMITTAL 02/22/2022	

REGISTERED PROFESSIONAL ENGINEER — EMAD T. SARIEDDINE — No. C65112 — CIVIL — STATE OF CALIFORNIA

KIER+WRIGHT
2850 Collier Canyon Road
Livermore, CA 94551
Phone: (925) 245-8788
www.kierwright.com

COVER SHEET
OF
14143 WASHINGTON AVENUE
FOR
FIRST INDUSTRIAL REALTY TRUST
SAN LEANDRO, CALIFORNIA

DATE	FEB, 2022
SCALE	AS SHOWN
DESIGNER	RSC
DRAWN BY	RSC
JOB NO.	A21528
SHEET	C0.0
OF	13 SHEETS



NORTH

0 10 20 40 60

Scale 1" = 20'

LEGEND

- ASPHALT BERM
- BUILDING LINE
- CENTERLINE
- COMMUNICATION LINE
- CONCRETE/BLOCK WALL
- CONCRETE CURB
- CONCRETE CURB & GUTTER
- MAJOR CONTOUR LINE
- MINOR CONTOUR LINE
- DRIVEWAY
- EASEMENT LINE
- EDGE OF PAVEMENT
- ELECTRIC LINE
- FENCE LINE
- GAS LINE–VALVE & METER
- JOINT TRENCH LINE
- LOT LINE
- MONUMENT/MONUMENT LINE
- OVERHEAD POWER LINE
- PROPERTY LINE
- RAILROAD TRACKS
- SANITARY SEWER LINE–MANHOLE & CLEANOUT
- SIDEWALK
- SPOT ELEVATION
- STORM DRAIN LINE–MANHOLE & CATCH BASIN
- STORM DRAIN LINE OVER 24"DIAMETER
- TELEPHONE LINE
- CABLE TELEVISION LINE
- WATER LINE & VALVE
- BACKFLOW PREVENTION DEVICE
- ELECTROLIER
- FIRE HYDRANT
- GAS METER
- GUY ANCHOR
- NAIL FOUND
- POWER POLE/JOINT POLE
- RAILROAD SPIKE FOUND
- TRANSFORMER
- TRAFFIC SIGN
- TREE
- UTILITY BOX
- UTILITY LINE MARKER
- WATER VALVE

ABBREVIATIONS

BB	BOTTOM OF BOX
BLDG	BUILDING
BLRD	BOLLARD
BSL	BUILDING SETBACK LINE
CB	CATCH BASIN
COM	COMMUNICATION
CTV	CABLE TV LINE
DOCK	DOCK
E	EAST
FF	FINISH FLOOR
FND	FOUND
IE	INVERT ELEVATION
LS	LAND SURVEYOR
N	NORTH
NAIL	MAGNESIUM NAIL
NE	NORTH EAST
O.R.	OFFICIAL RECORD
OH	OVERHEAD
RE	RIM ELEVATION
ROW	RIGHT OF WAY
S	SOUTH
SDMH	STORM DRAIN MANHOLE
SE	SOUTH EAST
SSMH	SANITARY SEWER MANHOLE
SW	SOUTH WEST
TAB	TOP OF BERM
TC	TOP OF CURB
UKD	UNKNOWN DESTINATION
W	WEST
WD	WOOD

NOTES

1. THIS SURVEY WAS PREPARED FROM INFORMATION FURNISHED IN A COMMITMENT FOR TITLE INSURANCE, PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY DATED AS OF JANUARY 22, 2021, ORDER NUMBER NCS–1049046–CHI2, FURNISHED TO KIER & WRIGHT CIVIL ENGINEERS & SURVEYORS, INC BY FIRST INDUSTRIAL REALTY TRUST, INC. ON FEBRUARY 10, 2021. NO LIABILITY IS ASSUMED FOR MATTERS OF RECORD NOT STATED IN SAID REPORT THAT MAY AFFECT THE TITLE LINES, OR EXCEPTIONS, OR EASEMENTS OF THE PROPERTY.
2. ALL DISTANCES AND ELEVATIONS SHOWN HEREON ARE IN FEET AND DECIMALS THEREOF.
3. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. (A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES). HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS.
4. THIS SURVEY DOES NOT SHOW THE LOCATIONS OF THE FOLLOWING UNDERGROUND UTILITY LINES DUE TO THE FACT THAT THE CLIENT HAS NOT FURNISHED KIER & WRIGHT CIVIL ENGINEERS & SURVEYORS, INC. WITH ANY PLANS THAT DELINEATE THEIR LOCATIONS: ELECTRIC LINES, GAS LINES, WATER LINES, TELEPHONE LINES, CABLE TELEVISION LINES, NITROGEN LINES, (IF ANY) FIBER OPTIC LINES (IF ANY). ALL PARTIES SHOULD CONSIDER THIS SURVEY AS PRELIMINARY WITH REGARDS TO THE LOCATION OF THE UTILITY FACILITIES. UPON RECEIPT OF THIS INFORMATION KIER & WRIGHT WILL UPDATE THIS SURVEY AND REISSUE IT.
5. PHYSICAL ITEMS SHOWN ON THIS SURVEY ARE LIMITED TO THOSE ITEMS VISIBLE AS OF THE DATE OF THIS SURVEY. SUBSURFACE STRUCTURES, IF ANY, ARE NOT SHOWN. SAID SUBSURFACE OBJECTS MAY INCLUDE, BUT ARE NOT LIMITED TO, CONCRETE FOOTINGS, SLABS, SHORING, STRUCTURAL PILES, UTILITY VAULTS, PIPING, UNDERGROUND TANKS, AND ANY OTHER SUBSURFACE STRUCTURES NOT REVEALED BY A SURFACE INSPECTION.
6. THE SUBJECT PROPERTY IS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) FOR ALAMEDA COUNTY, CALIFORNIA, MAP NUMBER 06001C0259G FOR COMMUNITY NUMBER 060013 (CITY OF SAN LEANDRO), WITH AN EFFECTIVE DATE OF AUGUST 3, 2009, AS BEING LOCATED IN FLOOD ZONE "X–UNSHADED". ACCORDING TO FEMA THE DEFINITION OF ZONE "X–UNSHADED" IS: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

   INFORMATION WAS OBTAINED FROM THE CITY OF SAN LEANDRO, PUBLIC WORKS DEPARTMENT ON FEBRUARY 18, 2021.
7. BENCHMARK:
   CITY OF SAN LEANDRO 2.5" DISK WITH PUNCH IN WELL AT THE CENTERLINE OF WASHINGTON AVE AND 143RD AVENUE. ELEVATION= 36.456.
8. BASIS OF BEARINGS:
   THE BEARING OF NORTH 27° 43' 23" WEST TAKEN ON THE MONUMENT LINE OF WASHINGTON AVENUE AS SHOWN ON THAT CERTAIN RECORD OF SURVEY NUMBER 1558, FILED FOR RECORD ON OCTOBER 8, 1998, IN BOOK 22 OF MAPS AT PAGES 59–60, OFFICIAL RECORDS OF ALAMEDA COUNTY WAS TAKEN AS THE BASIS FOR ALL BEARINGS SHOWN HEREON.
9. CORNER RECORD NOTE:
   THE DEVELOPER AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND FILING OF PRE–CONSTRUCTION AND POST–CONSTRUCTION CORNER RECORDS FOR ANY MONUMENTS OR PROPERTY CORNERS SHOWN HEREON THAT MAY BE DESTROYED DURING IMPROVEMENTS TO THE SUBJECT PROPERTY AS DEFINED IN SECTION 8771(B) OF THE PROFESSIONAL LAND SURVEYORS ACT.

DRAFT XX/XX/XXXX

PREPARED BY OR UNDER THE SUPERVISION OF DEAN A. JURADO, L.S. 9032 LICENSE EXPIRES: 9–30–19 — DATE

LICENSED LAND SURVEYOR — DEAN A. JURADO — No. 9032 — STATE OF CALIFORNIA

NO.	REVISION	BY

NO.	REVISION	BY
	02/22/2022	
	PLANNING RESUBMITTAL	

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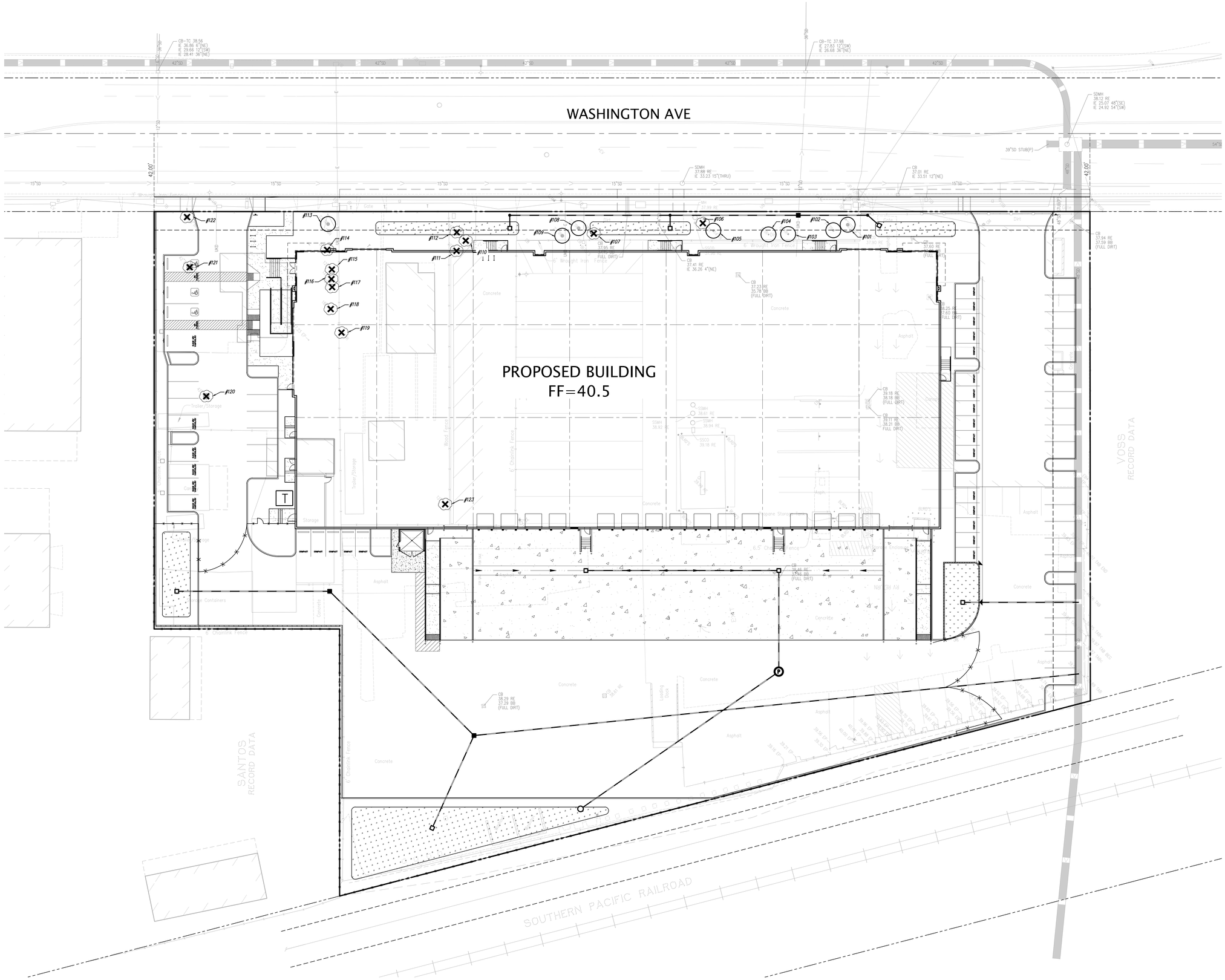
TOPOGRAPHIC SURVEY
OF
14143 WASHINGTON AVENUE
FOR
FIRST INDUSTRIAL REALTY TRUST

SAN LEANDRO, CALIFORNIA

DATE	FEB, 2022
SCALE	AS SHOWN
DESIGNER	RSC
DRAWN BY	RSC
JOB NO.	A21528

SHEET C1.0
OF 13 SHEETS



0 10 20 40 60

Scale 1" = 20'

LEGEND

- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE PROTECTED IN PLACE

NO.	REVISION	BY

NO.	REVISION	BY
	PLANNING RESUBMITTAL 02/22/2022	

REGISTERED PROFESSIONAL ENGINEER
CHAD Y. SARIEDDINE
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CIVIL
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TREE REMOVAL PLAN
OF
14143 WASHINGTON AVENUE
FOR
FIRST INDUSTRIAL REALTY TRUST

SAN LEANDRO, CALIFORNIA

DATE	FEB, 2022
SCALE	AS SHOWN
DESIGNER	RSC
DRAWN BY	RSC
JOB NO.	A21528
SHEET	C1.1
OF	13 SHEETS

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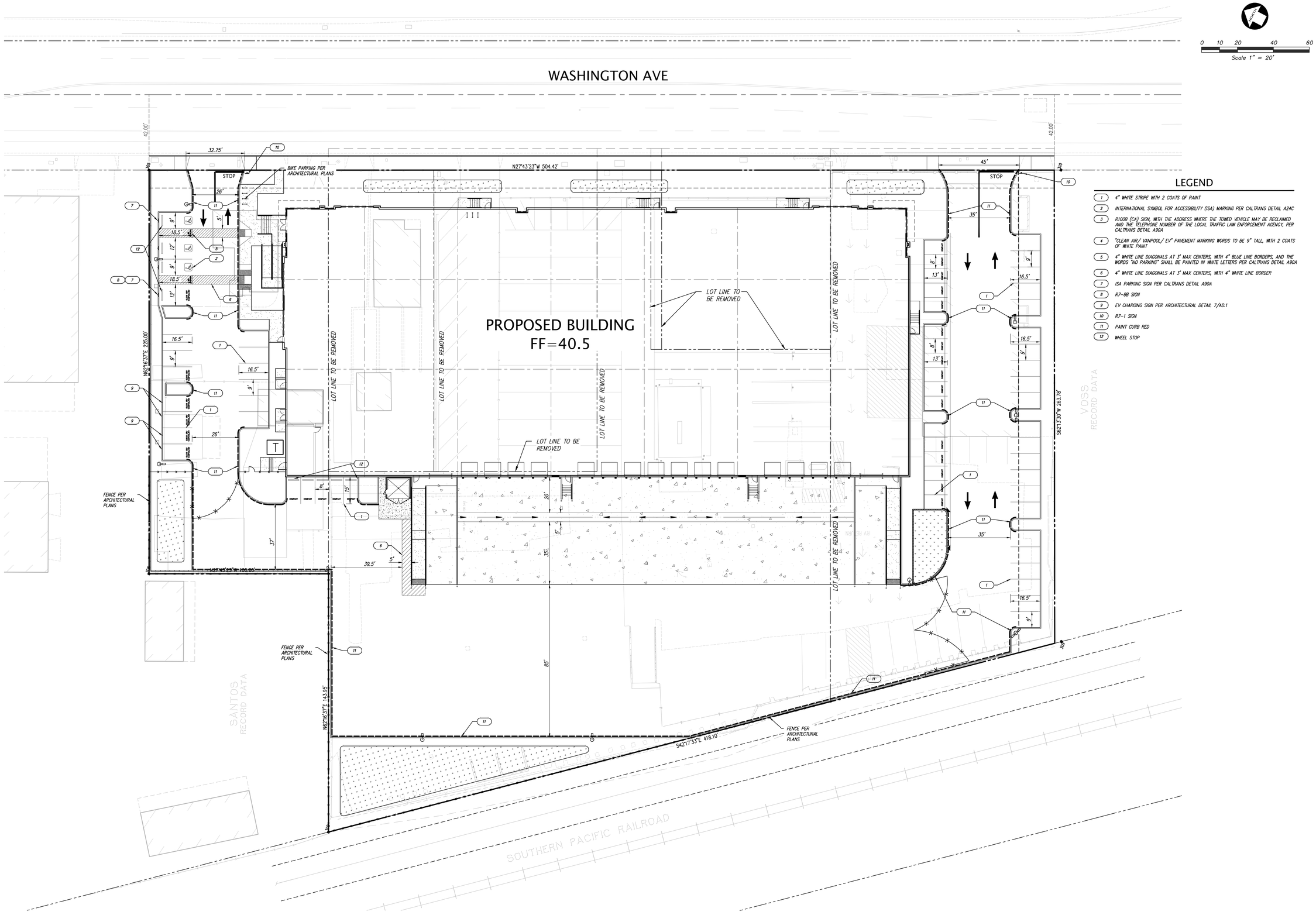

LEGEND

1. 4" WHITE STRIPE WITH 2 COATS OF PAINT
2. INTERNATIONAL SYMBOL FOR ACCESSIBILITY (ISA) MARKING PER CALTRANS DETAIL A24C
3. R100B (CA) SIGN, WITH THE ADDRESS WHERE THE TOWED VEHICLE MAY BE RECLAIMED AND THE TELEPHONE NUMBER OF THE LOCAL TRAFFIC LAW ENFORCEMENT AGENCY, PER CALTRANS DETAIL A90A
4. "CLEAN AIR/ VANPOOL/ EV" PAVEMENT MARKING WORDS TO BE 9" TALL, WITH 2 COATS OF WHITE PAINT
5. 4" WHITE LINE DIAGONALS AT 3' MAX CENTERS, WITH 4" BLUE LINE BORDERS, AND THE WORDS "NO PARKING" SHALL BE PAINTED IN WHITE LETTERS PER CALTRANS DETAIL A90A
6. 4" WHITE LINE DIAGONALS AT 3' MAX CENTERS, WITH 4" WHITE LINE BORDER
7. ISA PARKING SIGN PER CALTRANS DETAIL A90A
8. R7-8B SIGN
9. EV CHARGING SIGN PER ARCHITECTURAL DETAIL 7/AD.1
10. R7-1 SIGN
11. PAINT CURB RED
12. WHEEL STOP

NO.	REVISION	BY
△	PLANNING RESUBMITTAL	02/22/2022
△		
△		
△		
△		

REGISTERED PROFESSIONAL ENGINEER
LEAD Y. SARIEDDINE
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SIGNING AND STRIPING PLAN
OF
14143 WASHINGTON AVENUE
FOR
FIRST INDUSTRIAL REALTY TRUST

SAN LEANDRO, CALIFORNIA

DATE	FEB, 2022
SCALE	AS SHOWN
DESIGNER	RSC
DRAWN BY	RSC
JOB NO.	A21528

SHEET C2.0
OF 13 SHEETS

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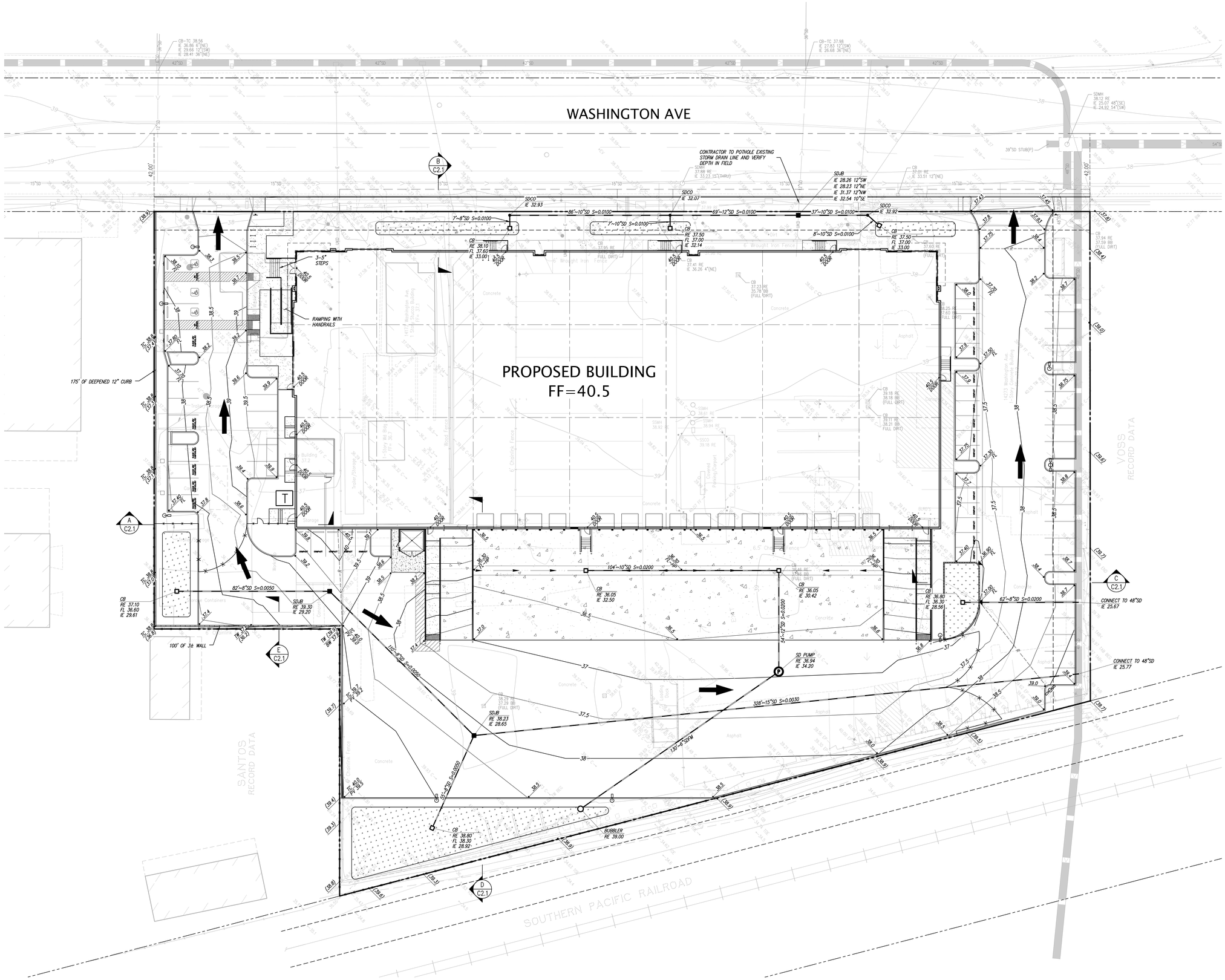

0 10 20 40 60
Scale 1" = 20'

LEGEND

□	STORM DRAIN CATCH BASIN
■	STORM DRAIN JUNCTION BOX
●	STORM DRAIN MANHOLE
FL	FLOW LINE
FF	FINISH FLOOR
LP	LOW POINT
PV	PAVEMENT
RE	RIM ELEVATION
23.8	SPOT ELEVATION
X"SD	STORM DRAIN LINE
TC	TOP OF CURB
➡	OVERLAND RELEASE

NO.	REVISION	BY
△	PLANNING RESUBMITTAL	02/22/2022
△		
△		
△		
△		

REGISTERED PROFESSIONAL ENGINEER
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PRELIMINARY GRADING AND DRAINAGE PLAN
OF
14143 WASHINGTON AVENUE
FOR
FIRST INDUSTRIAL REALTY TRUST
SAN LEANDRO, CALIFORNIA

DATE	FEB, 2022
SCALE	AS SHOWN
DESIGNER	RSC
DRAWN BY	RSC
JOB NO.	A21528
SHEET	C3.0
OF	13 SHEETS

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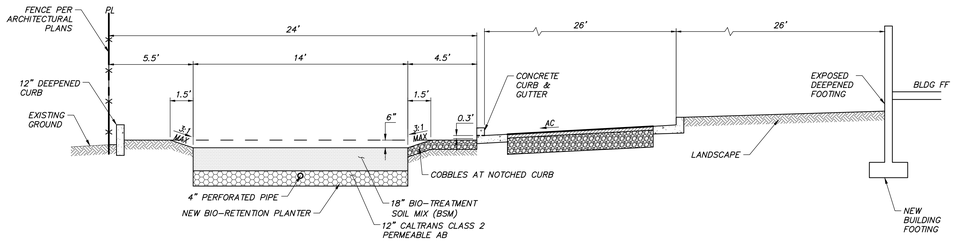

SECTION A
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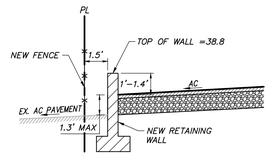

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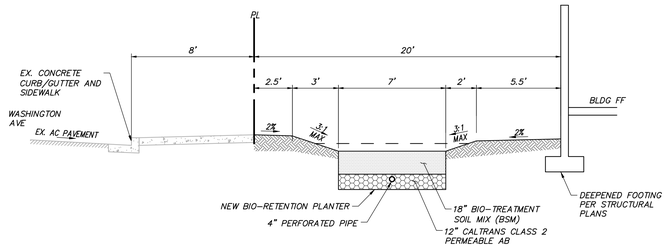

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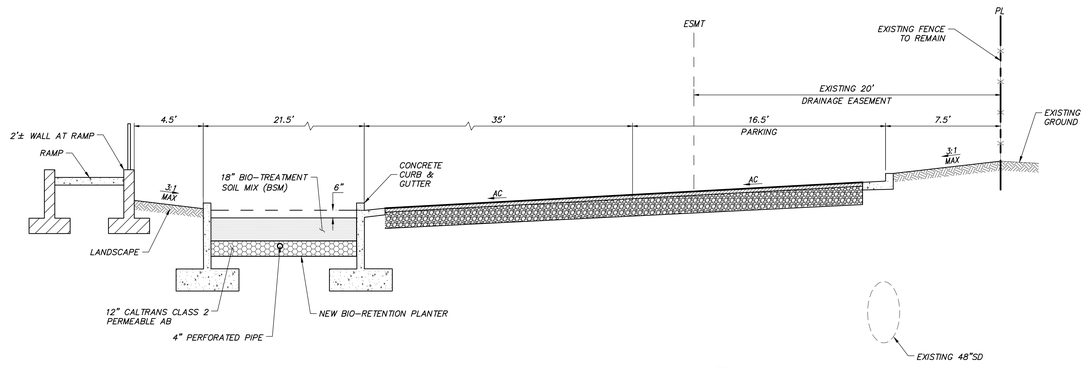

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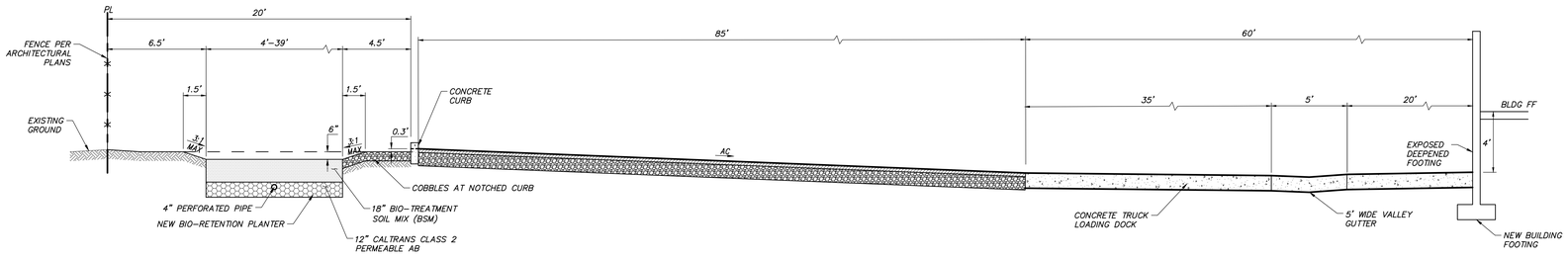

SECTION D
NOT TO SCALE

NO.	REVISION	BY
△	PLANNING RESUBMITTAL	02/22/2022
△		
△		
△		
△		

REGISTERED PROFESSIONAL ENGINEER
LAND T. SARTEDDINE
No. C65112
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STATE OF CALIFORNIA

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SECTIONS
OF
14143 WASHINGTON AVENUE
FOR
FIRST INDUSTRIAL REALTY TRUST

SAN LEANDRO, CALIFORNIA

DATE	FEB, 2022
SCALE	AS SHOWN
DESIGNER	RSC
DRAWN BY	RSC
JOB NO.	A21528
SHEET	C3.1
OF	13 SHEETS

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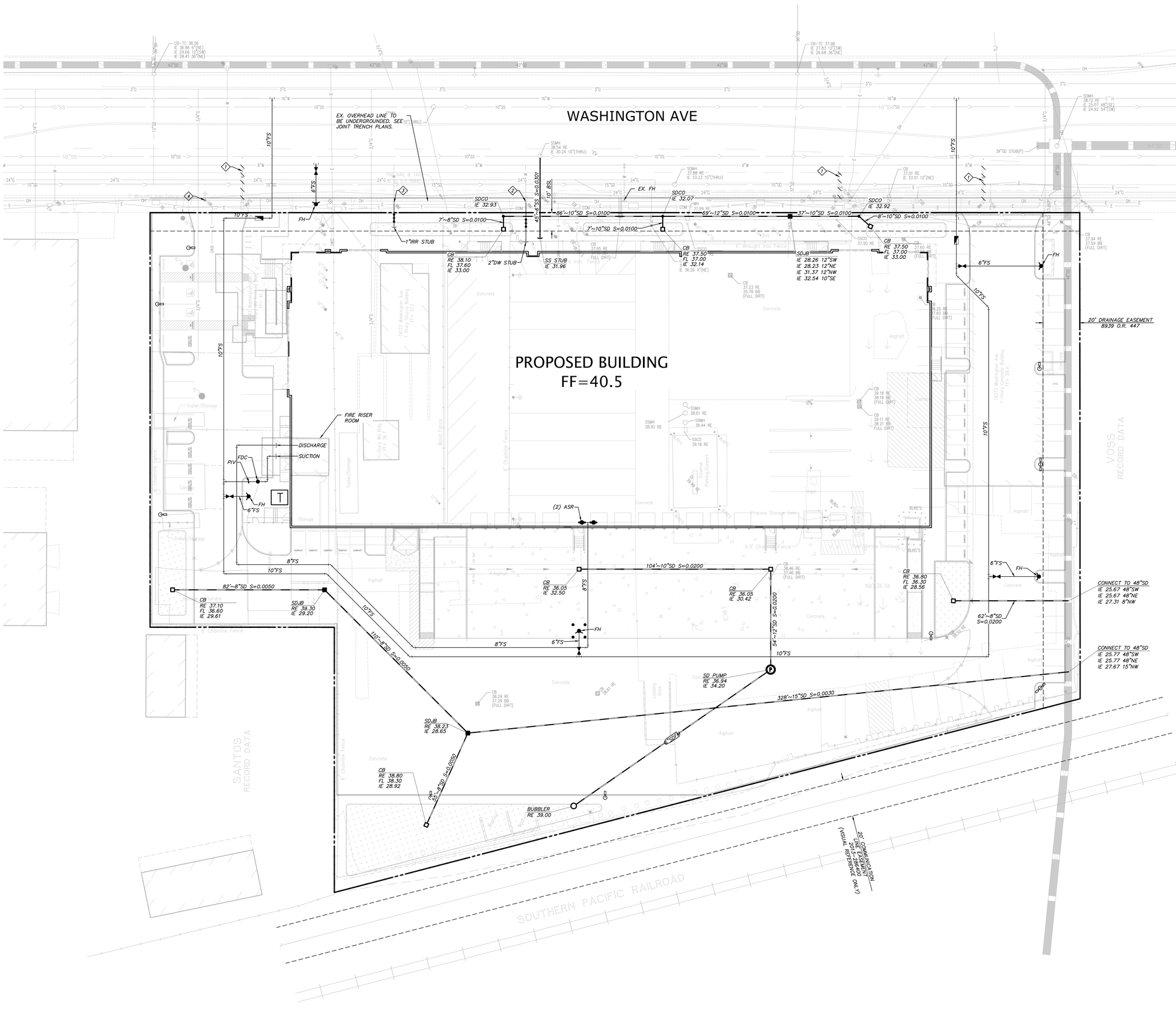

NORTH

0 10 20 40 60

Scale 1" = 20'

LEGEND

RE	RIM ELEVATION
TC	TOP OF CURB
WS	WATER SERVICE
	EXISTING UTILITY TO BE ABANDONDED BY REMOVAL
FS	FIRE SERVICE
SS	SANITARY SEWER
COTG	CLEANOUT TO GRADE
	STORM DRAIN LINE
	STORM DRAIN CATCH BASIN
	STORM DRAIN JUNCTION BOX
	STORM DRAIN MANHOLE
	BACK FLOW PREVENTION DEVICE
	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT & VALVE
	POST INDICATOR VALVE
SSMH	SANITARY SEWER MANHOLE
	SINGLE CHECK VALVE
SDMH	STORM DRAIN MANHOLE
	WATER METER
	BOLLARDS

KEY NOTES

1. EXISTING WATER LATERAL AND METER TO BE ABANDONED BY E.B.M.U.D.
2. EXISTING WATER METER TO BE UTILIZED FOR DOMESTIC METER.
3. EXISTING WATER METER TO BE UTILIZED FOR IRRIGATION.
4. EXISTING POWER POLE/STREET LIGHT TO BE RELOCATED.

NO.	REVISION	BY

NO.	REVISION	BY
1	PLANNING RESUBMITTAL 02/22/2022	

REGISTERED PROFESSIONAL ENGINEER — RAND T. SARTORIUS — No. 65112 — CIVIL — STATE OF CALIFORNIA

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PRELIMINARY UTILITY PLAN
OF
14143 WASHINGTON AVENUE
FOR
FIRST INDUSTRIAL REALTY TRUST
SAN LEANDRO, CALIFORNIA

DATE	FEB, 2022
SCALE	AS SHOWN
DESIGNER	RSC
DRAWN BY	RSC
JOB NO.	A21528
SHEET	C4.0
OF	13 SHEETS

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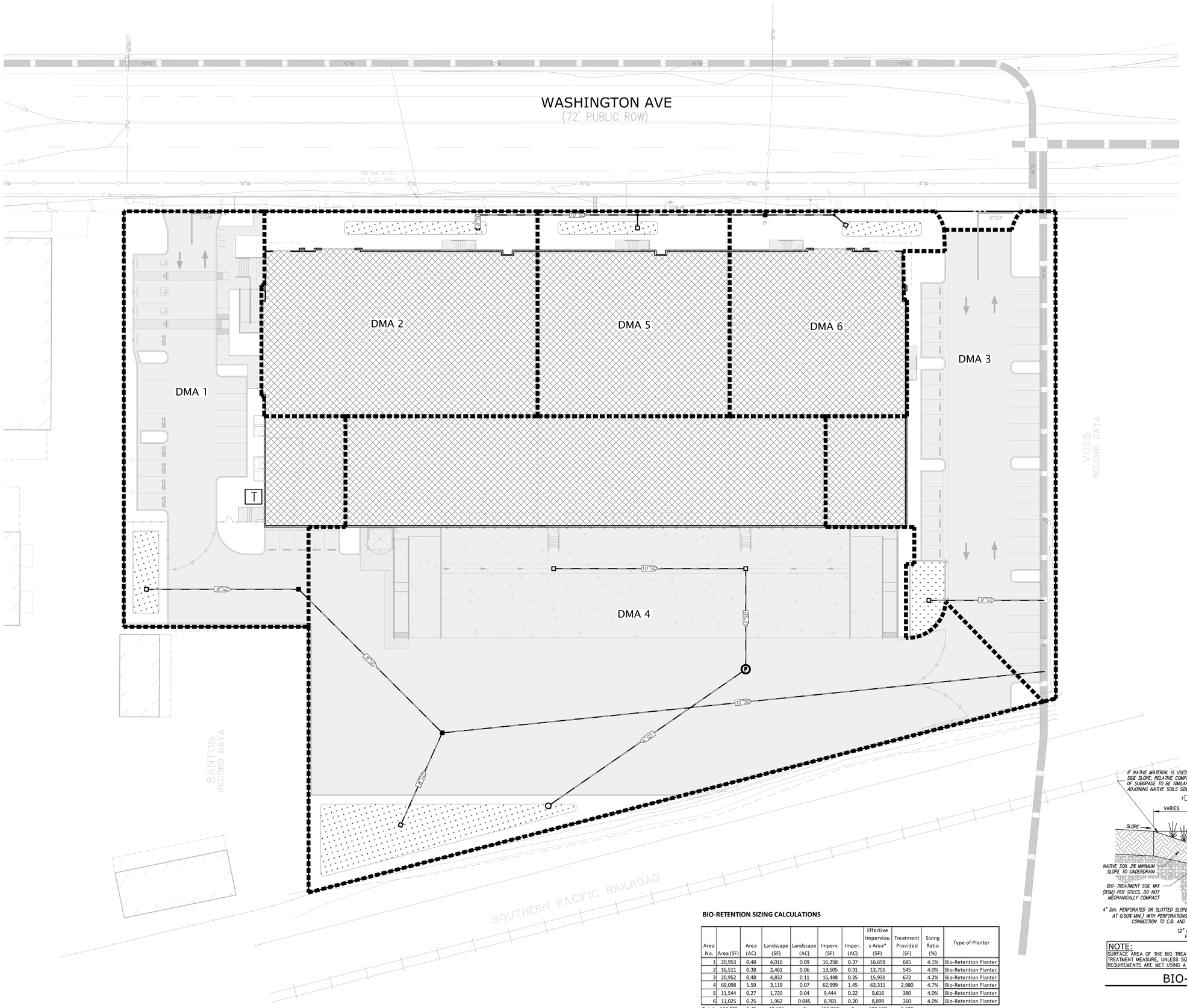
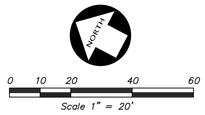
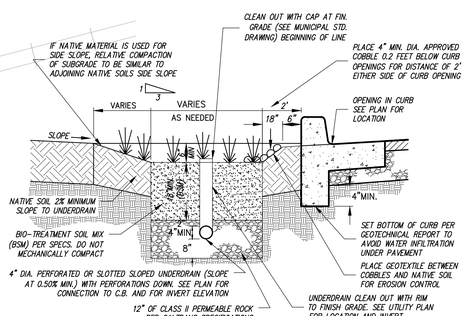




LEGEND

- TRIBUTARY AREA LIMITS
- IMPERVIOUS ROOFTOP DRAINING TO BIO-SWALE
- IMPERVIOUS PAVEMENT DRAINING TO BIO-SWALE
- BIO-RETENTION TREATMENT AREA



NOTE:
SURFACE AREA OF THE BIO TREATMENT SOIL SHALL EQUAL 4% OF THE AREA OF THE SITE THAT DRAINS TO TREATMENT MEASURE, UNLESS SIZING CALCULATIONS ARE SUBMITTED DEMONSTRATING THAT PROVISION C.3 REQUIREMENTS ARE MET USING A SMALLER SURFACE AREA.

BIO-RETENTION DETAILS

NOT TO SCALE

BIO-RETENTION SIZING CALCULATIONS

Area No.	Area (SF)	Area (AC)	Landscape (SF)	Landscape (AC)	Imperv. (SF)	Imper. (AC)	Effective Impervious Area* (SF)	Treatment Provided (SF)	Sizing Ratio (%)	Type of Planter
1	20,953	0.48	4,010	0.09	16,258	0.37	16,659	685	4.1%	Bio-Retention Planter
2	16,511	0.38	2,461	0.06	13,505	0.31	13,751	545	4.0%	Bio-Retention Planter
3	20,952	0.48	4,832	0.11	15,448	0.35	15,931	672	4.2%	Bio-Retention Planter
4	69,098	1.59	3,119	0.07	62,999	1.45	63,311	2,980	4.7%	Bio-Retention Planter
5	11,544	0.27	1,720	0.04	9,444	0.22	9,616	380	4.0%	Bio-Retention Planter
6	11,025	0.25	1,962	0.045	8,703	0.20	8,899	360	4.0%	Bio-Retention Planter
Total	150,083	3.45	18,104	0	126,357	3	128,167	5,622		

*: Effective Impervious Area is equal to Impervious Area + 0.10 * Landscape Area.

NO.	REVISION	BY
	PLANNING RESUBMITTAL	02/22/2022

REGISTERED PROFESSIONAL ENGINEER
LEAD Y. SARTEDDINE
No. C65112
CIVIL
STATE OF CALIFORNIA

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PRELIMINARY STORM WATER QUALITY CONTROL PLAN
OF
14143 WASHINGTON AVENUE
FOR
FIRST INDUSTRIAL REALTY TRUST
SAN LEANDRO, CALIFORNIA

DATE	FEB, 2022
SCALE	AS SHOWN
DESIGNER	RSC
DRAWN BY	RSC
JOB NO.	A21528

SHEET C5.0 OF 12 SHEETS

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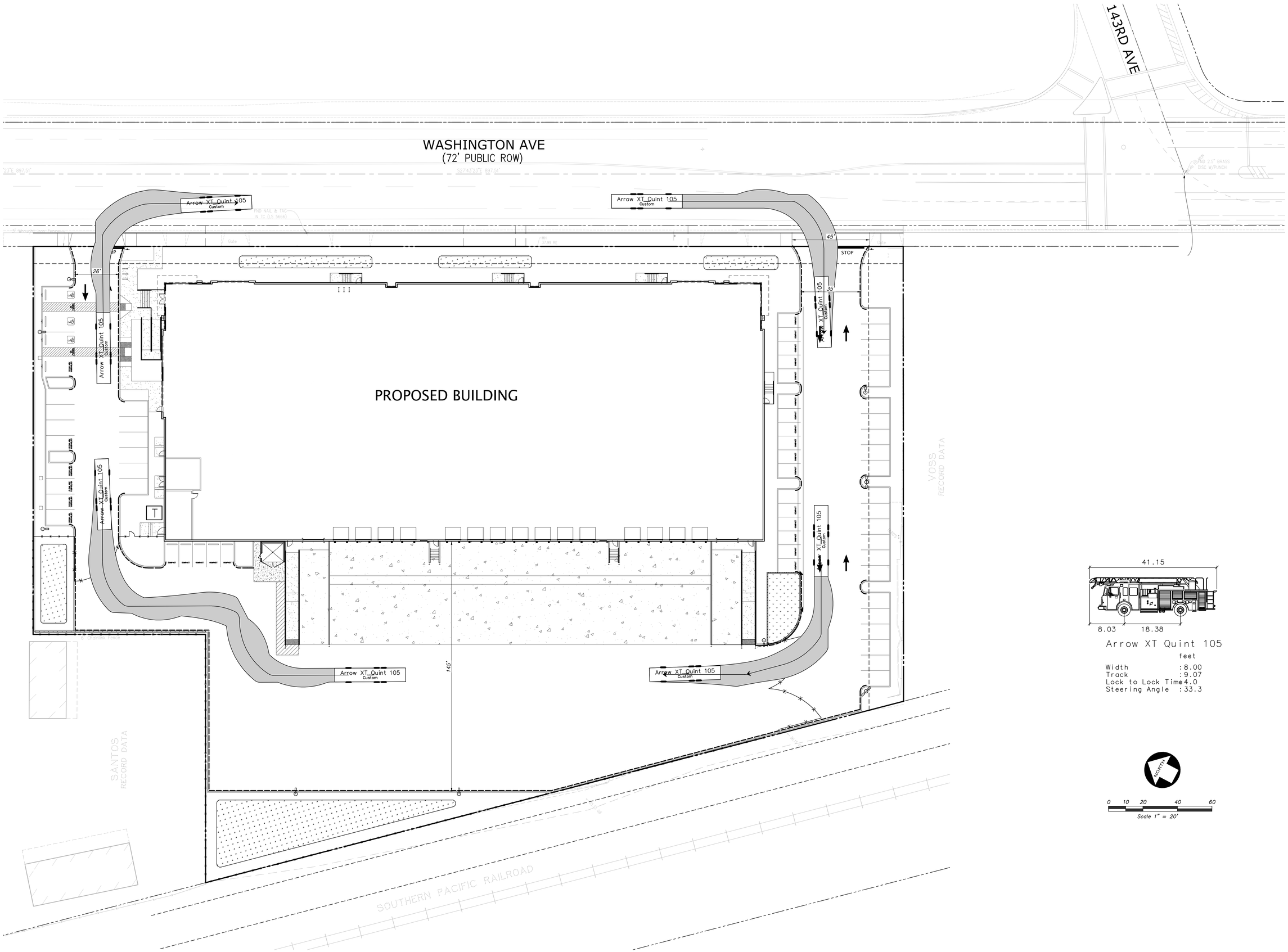

NO.	REVISION	BY

NO.	REVISION	BY
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REGISTERED PROFESSIONAL ENGINEER
LEAD Y. SARTEDDINE
No. C65112
CIVIL
STATE OF CALIFORNIA

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FIRE TRUCK CIRCULATION
OF
14143 WASHINGTON AVENUE
FOR
FIRST INDUSTRIAL REALTY TRUST

SAN LEANDRO, CALIFORNIA

DATE	FEB, 2022
SCALE	AS SHOWN
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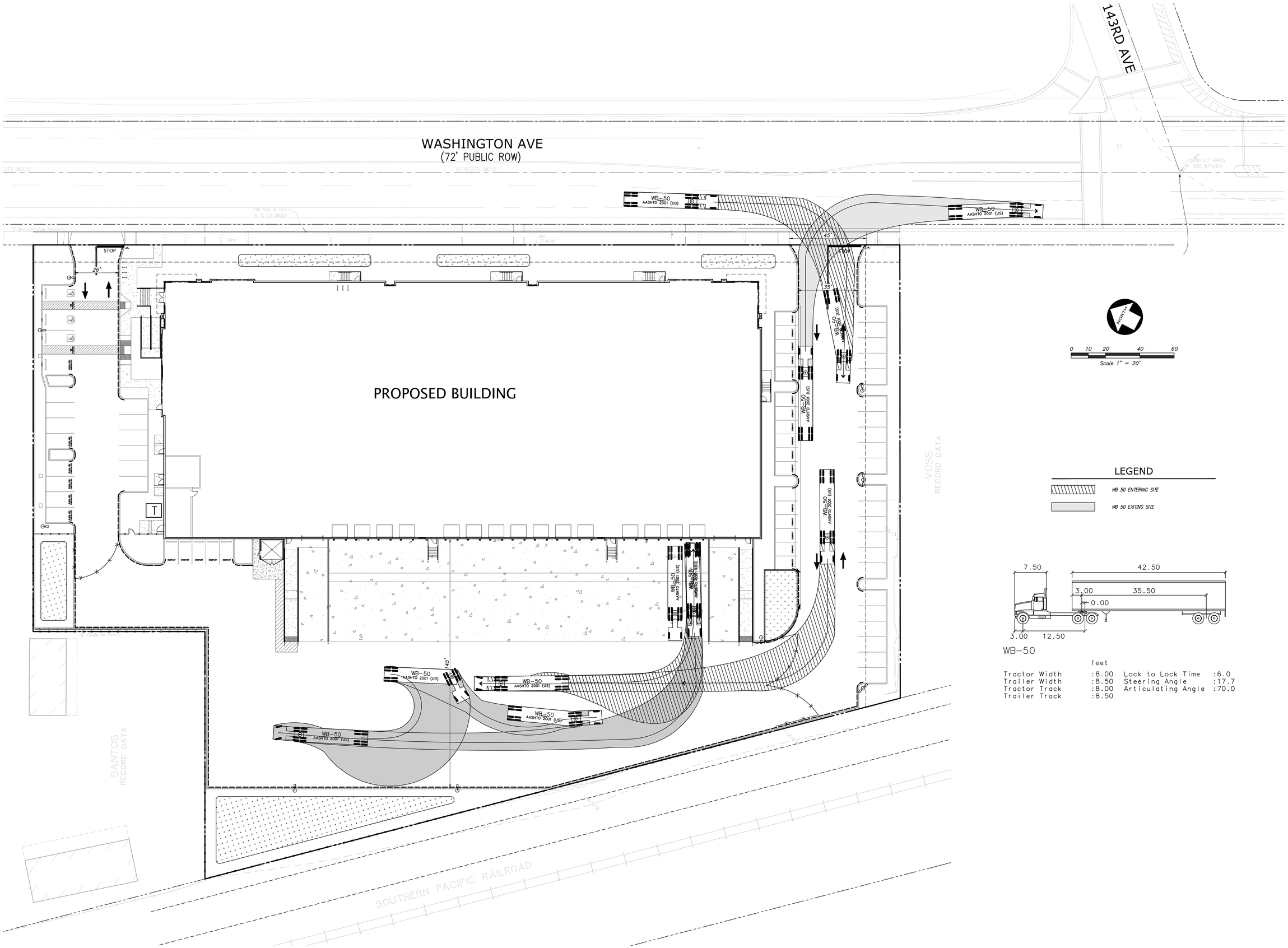
SHEET	C6.0
OF	13 SHEETS



feet

Tractor Width	:8.00	Lock to Lock Time	:6.0
Trailer Width	:8.50	Steering Angle	:17.7
Tractor Track	:8.00	Articulating Angle	:70.0
Trailer Track	:8.50		

NO.	REVISION	BY

NO.	REVISION	BY
	PLANNING RESUBMITTAL	02/22/2022

REGISTERED PROFESSIONAL ENGINEER
CHAD Y. SARTEDDINE
No. C65112
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Livermore, CA 94551
Phone: (925) 245-8788
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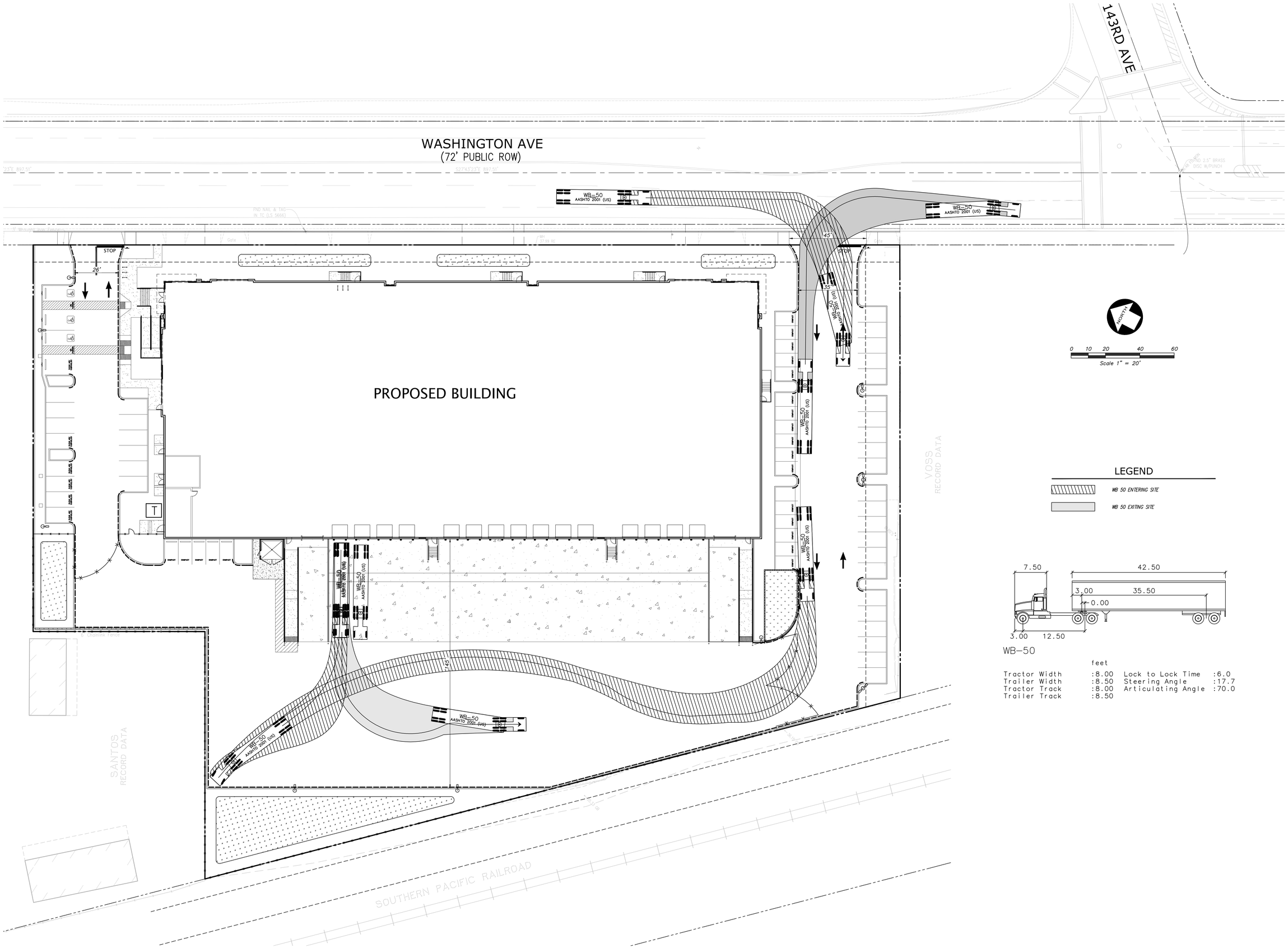
WB-50 TRUCK TURNING - EAST LOADING DOCK
OF
14143 WASHINGTON AVENUE
FOR
FIRST INDUSTRIAL REALTY TRUST
SAN LEANDRO, CALIFORNIA

DATE	FEB, 2022
SCALE	AS SHOWN
DESIGNER	RSC
DRAWN BY	RSC
JOB NO.	A21528
SHEET	C6.1
OF	13 SHEETS



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Tractor Track	:8.00	Articulating Angle	:70.0
Trailer Track	:8.50		

NO.	REVISION	BY

NO.	REVISION	BY
	PLANNING RESUBMITTAL	02/22/2022

REGISTERED PROFESSIONAL ENGINEER
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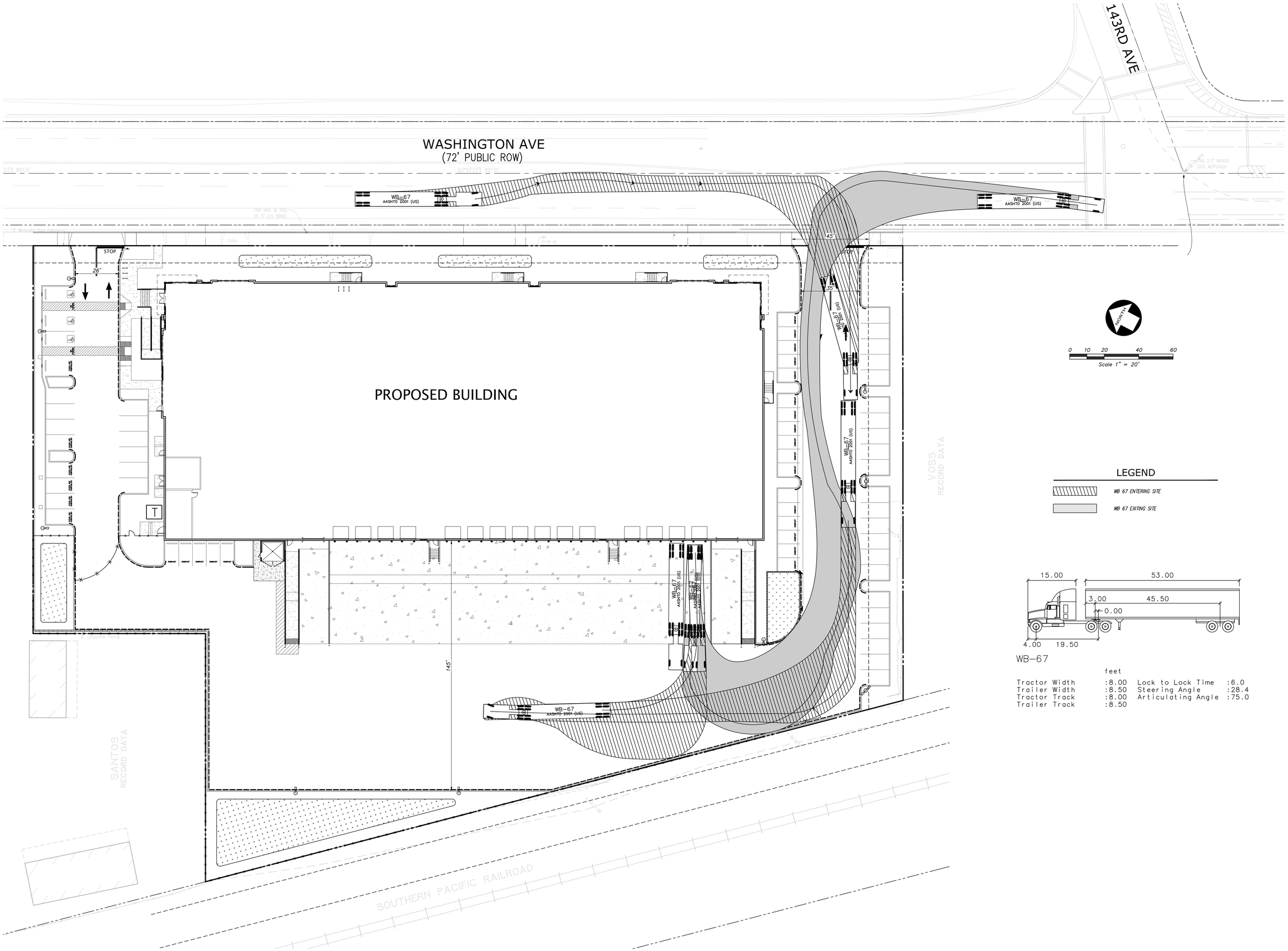
WB-50 TRUCK TURNING - WEST LOADING DOCK
OF
14143 WASHINGTON AVENUE
FOR
FIRST INDUSTRIAL REALTY TRUST
SAN LEANDRO, CALIFORNIA

DATE	FEB, 2022
SCALE	AS SHOWN
DESIGNER	RSC
DRAWN BY	RSC
JOB NO.	A21528
SHEET	C6.2
OF	13 SHEETS



feet

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Tractor Track	:8.00	Articulating Angle	:75.0
Trailer Track	:8.50		

NO.	REVISION	BY

NO.	REVISION	BY
	PLANNING RESUBMITTAL	02/22/2022

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WB-67 TRUCK TURNING - EAST LOADING DOCK
OF
14143 WASHINGTON AVENUE
FOR
FIRST INDUSTRIAL REALTY TRUST
SAN LEANDRO, CALIFORNIA

DATE	FEB, 2022
SCALE	AS SHOWN
DESIGNER	RSC
DRAWN BY	RSC
JOB NO.	A21528
SHEET	C6.3
OF	13 SHEETS

WASHINGTON AVE
(72' PUBLIC ROW)

143RD AVE

PROPOSED BUILDING

STOP

26'

35'

45'

145'

WB-67
AASHTO 2001 (US)

SANTOS
RECORD DATA

VOSS
RECORD DATA

SOUTHERN PACIFIC RAILROAD

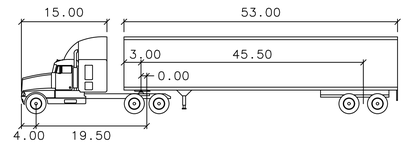
NORTH

0 10 20 40 60
Scale 1" = 20'

LEGEND

WB 67 ENTERING SITE

WB 67 EXITING SITE



WB-67

feet

Tractor Width	:8.00	Lock to Lock Time	:6.0
Trailer Width	:8.50	Steering Angle	:28.4
Tractor Track	:8.00	Articulating Angle	:75.0
Trailer Track	:8.50		

NO.	REVISION	BY
	PLANNING RESUBMITTAL 03/22/2022	

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WB-67 TRUCK TURNING - WEST LOADING DOCK
OF
14143 WASHINGTON AVENUE
FOR
FIRST INDUSTRIAL REALTY TRUST

SAN LEANDRO, CALIFORNIA

DATE	FEB, 2022
SCALE	AS SHOWN
DESIGNER	RSC
DRAWN BY	RSC
JOB NO.	A21528
SHEET	C6.4
OF	13 SHEETS

Appendix D

Biological Resources Analysis

Memorandum

Date: February 15, 2023

To: Binh Nguyen, Associate Planner, City of Leandro, Planning Division

From: Bernhard Warzecha, FirstCarbon Solutions, Senior Biologist

Subject: Revised Biological Resources Analysis for the 14143 Washington Avenue Project, San Leandro, CA

This memorandum summarizes the findings of a Biological Resources Analysis (BRA) for the proposed 14143 Washington Avenue Project (proposed project), in San Leandro, California (Exhibit 1). Recommended measures to avoid or minimize potential project-related impacts on sensitive biological resources on-site are included as appropriate.

PROJECT LOCATION AND PROJECT DESCRIPTION

The project site consists of approximately 3.45 acres located at 14143 Washington Avenue, between Washington Avenue to the east, commercial/industrial land uses to the north and south, and a railway corridor to the west. The proposed project would develop a warehouse and office building with auxiliary facilities including parking and landscaping (Exhibit 2).

REGULATORY BACKGROUND

Federal

Endangered Species Act of 1973

The United States Fish and Wildlife Service (USFWS) has jurisdiction over species listed as threatened or endangered under the federal Endangered Species Act of 1973. Section 9 of the Endangered Species Act protects listed species from "take," which is broadly defined as actions taken to "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt to engage in any such conduct." The Endangered Species Act protects threatened and endangered plants and animals and their habitats. Additionally, the USFWS designates specific areas as "Critical Habitat" for Endangered Species Act-listed species.

Candidate species are those proposed for listing; these species are usually treated by resource agencies as if they were actually listed during the environmental review process.

Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA) implements international treaties between the United States and other nations devised to protect migratory birds, their parts, eggs, and nests from activities such as hunting, pursuing, capturing, killing, selling, and shipping, unless expressly authorized in the regulations or by permit. All migratory birds and their nests are protected from take and other impacts under the MBTA (16 United States Code [USC] § 703, *et seq*.).

Bald and Golden Eagle Protection Act

The golden eagle (*Aquila chrysaetos*) and bald eagle (*Haliaeetus leucocephalus*) are afforded additional protection under the Eagle Protection Act, amended in 1973 (16 USC § 669, *et seq*.) and the Bald and Golden Eagle Protection Act (16 USC §§ 668–668d).

Clean Water Act

Section 404

The United States Army Corps of Engineers (USACE) administers Section 404 of the federal Clean Water Act (CWA), which regulates the discharge of dredge and fill material into waters of the United States.

As of the date of this report, the United States Environmental Protection Agency (EPA) and USACE (hereafter the agencies) are in receipt of the U.S. District Court for the District of Arizona's August 30, 2021, order vacating and remanding the Navigable Waters Protection Rule in the case of *Pascua Yaqui Tribe v. U.S. Environmental Protection Agency*. In light of this order, these agencies have halted implementation of the Navigable Waters Protection Rule and are interpreting "waters of the United States" consistent with the pre-2015 regulatory regime until further notice.[1]

Therefore, since the agencies are interpreting "waters of the United States" consistent with the pre-2015 regulatory regime until further notice, our analysis follows 40 Code of Federal Regulations 230.3(s) in effect under the pre-2015 regulatory regime, which defines "waters of the United States" as follows:

1. All waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide.
2. All interstate waters including interstate wetlands.
3. All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation, or destruction of which could affect interstate or foreign commerce including any such waters:

[1] United States Environmental Protection Agency (EPA). 2021. Website: https://www.epa.gov/wotus/current-implementation-waters-united-states. Accessed April 22, 2022.

a) Which are or could be used by interstate or foreign travelers for recreational or other purposes; or
b) From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
c) Which are used or could be used for industrial purposes by industries in interstate commerce.

4. All impoundments of waters otherwise defined as waters of the United States under this definition.
5. Tributaries of waters identified in paragraphs (s)(1) through (4) of this section.
6. The territorial sea.
7. Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (s)(1) through (6) of this section; waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of the CWA (other than cooling ponds as defined in 40 Code of Federal Regulations 423.11(m) which also meet the criteria of this definition) are not waters of the United States.

Waters of the United States do not include prior converted cropland. Notwithstanding the determination of an area's status as prior converted cropland by any other federal agency, for the purposes of the CWA, the final authority regarding CWA jurisdiction remains with the EPA and/or USACE.

"Wetland" refers to areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and seasonal wetlands. Wetlands are considered jurisdictional if they fall under one of the categories of waters of the United States defined above. The USACE jurisdiction typically extends up to the ordinary high water mark (OHWM).

In general, a USACE permit must be obtained before placing fill in wetlands or other waters of the United States. The type of permit depends on the impacted acreage, the purpose of the proposed fill, and other factors.

Section 401

As stated in Section 401 of the CWA, "any applicant for a federal permit for activities that involve a discharge to waters of the State, shall provide the federal permitting agency a certification from the State in which the discharge is proposed that states that the discharge will comply with the applicable provisions under the federal Clean Water Act." Therefore, before the USACE will issue a Section 404 permit in California, applicants must apply for and receive a Section 401 Water Quality Certification from the State or Regional Water Quality Control Board (RWQCB).

State

CEQA Guidelines

The California Environmental Quality Act (CEQA) requires public agencies to evaluate potential impacts to special-status species and their habitat. The following CEQA Guidelines Appendix G checklist questions serve as thresholds of significance when evaluating the potential impacts of a proposed project on biological resources. Impacts are considered significant if a project would:

- Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as being a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife (CDFW) or USFWS.
- 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 CDFW or USFWS.
- Have a substantial adverse effect on federally and State-protected wetlands as defined by Section 404 of the CWA (including but not limited to marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.
- 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.
- Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.
- Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or State Habitat Conservation Plan.

California Endangered Species Act

The State of California enacted the California Endangered Species Act (CESA) in 1984. CESA pertains to State listed endangered and threatened species. CESA requires State agencies to consult with the CDFW when preparing CEQA documents to ensure that the State lead agency actions do not jeopardize the continued existence of a listed species or result in the destruction or adverse modification of habitat essential to the continued existence of those species, if there are reasonable and prudent alternatives available (Fish and Game Code [FGC] § 2080). CESA directs agencies to consult with the CDFW on projects or actions that could affect listed species, directs the CDFW to determine whether jeopardy would occur, and allows the CDFW to identify “reasonable and prudent alternatives” to the project consistent with conserving the species. CESA allows the CDFW to authorize exceptions to the State’s prohibition against take of a listed species if the “take” of a listed species is incidental to carrying out an otherwise lawful project that has been approved under CEQA (FGC § 2081).

California Fish and Game Code

Under CESA, the CDFW has the responsibility for maintaining a list of endangered and threatened species (FGC § 2070). Fish and Game Code Sections 2050–2098 outline the protection provided to California's rare, endangered, and threatened species. Fish and Game Code Section 2080 prohibits the taking of plants and animals listed under the CESA. Fish and Game Code Section 2081 established an incidental take permit program for State listed species. The CDFW maintains a list of "candidate species," which it formally notices as being under review for addition to the list of endangered or threatened species.

In addition, the Native Plant Protection Act of 1977 (NPPA) (FGC § 1900, *et seq*.) prohibits the taking, possessing, or sale within the State of any plants with a State designation of rare, threatened, or endangered (as defined by the CDFW). An exception to this prohibition in the NPPA allows landowners, under specified circumstances, to take listed plant species, provided that the owners first notify the CDFW and give the agency at least 10 days to come and retrieve (and presumably replant) the plants before they are plowed under or otherwise destroyed. Fish and Game Code Section 1913 exempts from "take" prohibition "the removal of endangered or rare native plants from a canal, lateral ditch, building site, or road, or other right of way." Project impacts to these species are not considered significant unless the species are known to have a high potential to occur within the area of disturbance associated with construction of the proposed project.

In addition to formal listing under the Endangered Species Act and CESA, some species receive additional consideration by the CDFW and local lead agencies during the CEQA process. Species that may be considered for review are those listed as a "Species of Special Concern." The CDFW maintains lists of "Species of Special Concern" that serve as species "watch lists." Species with this status may have limited distributions or limited populations and/or the extent of their habitats has been reduced substantially, such that their populations may be threatened. Thus, their populations are monitored, and they may receive special attention during environmental review. While they do not have statutory protection, they may be considered rare under CEQA Guidelines and specific protection measures may be warranted. In addition to Species of Special Concern, the CDFW Special Animals List identifies animals that are tracked by the California Natural Diversity Database (CNDDB) and may be potentially vulnerable but warrant no federal interest and no legal protection.

Sensitive species that would qualify for listing but are not currently listed are afforded protection under CEQA. CEQA Guidelines Section 15065 (Mandatory Findings of Significance) requires that a substantial reduction in numbers of a rare or endangered species be considered a significant effect. CEQA Guidelines Section 15380 (Rare or Endangered Species) provides for the assessment of unlisted species as rare or endangered under CEQA if the species can be shown to meet the criteria for listing. Unlisted plant species on the California Native Plant Society (CNPS) List ranked 1A, 1B, and 2 would typically require evaluation under CEQA.

Fish and Game Code Sections 3500 to 5500 outline protection for fully protected species of mammals, birds, reptiles, amphibians, and fish. Species that are fully protected by these sections may not be taken or possessed at any time. The CDFW cannot issue permits or licenses that authorize the take of any fully protected species, except under certain circumstances such as scientific research and live capture and relocation of such species pursuant to a permit for the protection of livestock.

Under Fish and Game Code Section 3503.5, it is unlawful to take, possess, or destroy any birds in the orders of *Falconiformes* or *Strigiformes* (birds of prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto. To comply with the requirements of CESA, an agency reviewing a proposed project within its jurisdiction must determine whether any State listed endangered or threatened species may be present in the project Study Area and determine whether the proposed project will have a potentially significant impact on such species. In addition, the CDFW encourages informal consultation on any proposed project that may impact a candidate species.

California Fish and Game Code continues to protect non-listed bat species and their roosting habitat, including individual roosts and maternity colonies. Relevant regulations include California Fish and Game Code Sections 86; 2000; 2014; 3007; and 4150, along with Title 14 of California Code of Regulations.

Fish and Game Code Section 1602 requires any entity to notify the CDFW before beginning any activity that "may substantially divert or obstruct the natural flow of, or substantially change or use any material from the bed, channel, or bank of any river, stream, or lake" or "deposit debris, waste, or other materials that could pass into any river, stream, or lake." "River, stream, or lake" includes waters that are episodic and perennial and ephemeral streams, desert washes, and watercourses with a subsurface flow. A Lake or Streambed Alteration Agreement will be required if the CDFW determines that project activities may substantially adversely affect fish or wildlife resources through alterations to a covered body of water. CDFW jurisdiction typically extends to the edge or "drip line" of the riparian habitat or top of bank.

California Native Plant Society

The CNPS maintains a rank of plant species that are native to California and that have low population numbers, limited distribution, or are otherwise threatened with extinction. This information is published in the Inventory of Rare and Endangered Vascular Plants of California. Following are the definitions of the CNPS ranks:

- **Rank 1A:** Plants presumed extirpated in California and either rare or extinct elsewhere
- **Rank 1B:** Plants rare, threatened, or endangered in California and elsewhere
- **Rank 2A:** Plants presumed extirpated in California but common elsewhere
- **Rank 2B:** Plants rare, threatened, or endangered in California but more common elsewhere
- **Rank 3:** Plants about which more information is needed, a review list
- **Rank 4:** Watch List: Plants of limited distribution

Potential impacts to populations of CNPS-ranked plants receive consideration under CEQA review. All plants appearing on the CNPS List ranked 1 or 2 are considered to meet the CEQA Guidelines Section 15380 criteria. Rank 3 and 4 plants do not automatically meet this definition. Rank 4 plants do not clearly meet CEQA standards and thresholds for impact considerations. Nevertheless, some level of CEQA review is justified for California Rare Plant Rank (CRPR) 4 taxa, and under some circumstances, a full impact analysis is warranted. Taxa that can be shown to meet the criteria for endangered, rare, or threatened status under CEQA Section 15380(d) or that can be shown to be regionally rare or unique as defined in CEQA Section 15125(c) must be fully analyzed in a CEQA document. Some circumstances, such as local rarity, having occurrences peripheral to the taxon's distribution, or having occurrences on unusual substrates or rare and declining habitats, provide justification for treating some CRPR 4 taxa occurrences as regionally rare or unique. One limitation to fully analyzing impacts on CRPR 4 taxa is the difficulty in obtaining current data on the number and condition of the occurrences.[2]

City of San Leandro 2035 General Plan

The following General Plan Policies relate to biological resources:

Policy OSC-6.2 Mitigation of Development Impacts

Require measures to mitigate the impacts of development or public improvements on fish and wildlife habitat, plant resources, and other valuable natural resources in the City.

Action OSC-6.4.A Biological Assessments

Require biological assessments for development in areas where special-status species may be present. Require mitigation in accordance with State and federal regulations where potential adverse impacts exist.

San Leandro Municipal Code

San Leandro Municipal Code (SLMC) Chapter 5.2 outlines the City's Tree Ordinance. It establishes the City's role in protecting, maintaining, removing, or otherwise altering street trees and also identifies the procedures necessary to make any alterations and to prevent damage to street trees.

San Leandro Zoning Code

San Leandro Zoning Code (SLZC) Section 4.16.112 outlines procedures for the treatment of existing trees on development sites. Procedures include identifying all existing trees equal or greater than 6 inches in

[2] California Native Plant Society (CNPS). 2020. Considerations for Including CRPR 4 Plant Taxa in CEQA Biological Resource Impact Analysis. Sacramento, CA. January 21, 2020.

diameter on plans submitted for "Site Plan Approval" and, if necessary, preparing a tree report. SLZC Section 4.16.112 additionally provides guidance regarding the preservation or replacement of trees.

METHODS

Analysis of the biological resources associated with the project site entailed a thorough review of relevant literature followed by a reconnaissance-level field survey to document existing site conditions and identify biological resource constraints, including the potential for special-status species to occur on-site. The survey area included the entire project site as well as the immediate vicinity where access was possible.

Literature Review

A literature review included topographic maps and recent and historic aerial imagery, the Natural Resources Conservation Service (NRCS) soil survey database, special-status species observation databases, hydrology databases, and others, as detailed below.

Topographic Maps and Aerial Photographs

A FirstCarbon Solutions (FCS) Biologist reviewed current topographic maps and aerial photographs as a preliminary analysis of the existing conditions within the project site and immediate vicinity. Information obtained from the review of the topographic maps included elevation range, general watershed information, and potential drainage feature locations.[3] Aerial photographs provide a perspective of site conditions relative to on-site and off-site land uses, preliminary plant community locations, and potential locations of wildlife movement corridors.

Soil Surveys

An FCS Biologist reviewed the NRCS Web Soil Survey to determine soil series (i.e., group of soils with similar profiles) and soil mapping units occurring at the project site.[4] An FCS Biologist reviewed habitat requirements pertaining to soils and substrates for special-status species to establish whether on-site conditions are suitable for occurrence of special-status plant and wildlife species.

Special-status Species Database Search

An FCS Biologist reviewed the CDFW CNDDB, a special-status species and plant community account database, the USFWS Information for Planning and Consultation (IPaC) system and the CNPS Electronic Inventory (CNPSEI) of Rare and Endangered Vascular Plants of California database for the *San Leandro,*

[3] United States Environmental Protection Agency (EPA). 2022. Watershed Assessment, Tracking and Environmental Results System (WATERS). Website: https://www.epa.gov/waterdata/waters-watershed-assessment-tracking-environmental-results-system. Accessed March 2022.

[4] Natural Resources Conservation Service (NRCS). 2022. United States Department of Agriculture (USDA). Soil Survey Official Soil Series Descriptions. Website: http://www.nrcs.usda.gov/. Accessed March 2022.

California, United States Geological Survey (USGS) 7.5-minute Topographic Quadrangle Map and the eight surrounding quadrangles.[5,6,7]

State or Federally Protected Waters and Wetlands

An FCS Biologist reviewed the EPA Watershed Assessment, Tracing and Environmental Results System (WATERS) and aerial photography to identify potential natural drainage features and water bodies.[8] In general, all surface drainage features identified as blue-line streams on USGS maps and linear water or wetland features that exhibit evidence of concentrated flow are considered potentially subject to State and federal regulatory authority as waters of the United States and/or State. A preliminary assessment in the field was conducted to determine the location of any existing drainages and the limits of project-related grading activities, to aid in determining whether a formal delineation of waters of the United States or State is necessary.

Protected Trees

Prior to conducting the reconnaissance-level survey, an FCS Biologist reviewed applicable City and County ordinances pertaining to tree preservation and protective measures and their tree replacement conditions or permits required. Additionally, the Revised Arborist Report (Attachment B) was reviewed and used as the basis for the tree-related analysis included here.

Habitat Conservation Plan

As part of the literature review, FCS also took into consideration whether the proposed project lies within the boundaries of any adopted Habitat Conservation Plan (HCP), Natural Community Conservation Plan (NCCP), or other approved local, regional, or State HCP and whether any such plan would be applicable to the proposed project.

City of San Leandro General Plan

The City of San Leandro General Plan (General Plan) was reviewed to identify applicable policies, goals, and actions related to biological resources.

Reconnaissance-Level Field Survey

On March 30, 2022, an FCS Biologist conducted a reconnaissance-level field survey of the project site and its immediate vicinity, where accessible. The object of the survey was to assess and characterize the biological conditions on and adjacent to the site, including an evaluation on whether sensitive biological resources, including suitable habitat for special-status plant and wildlife species are present.

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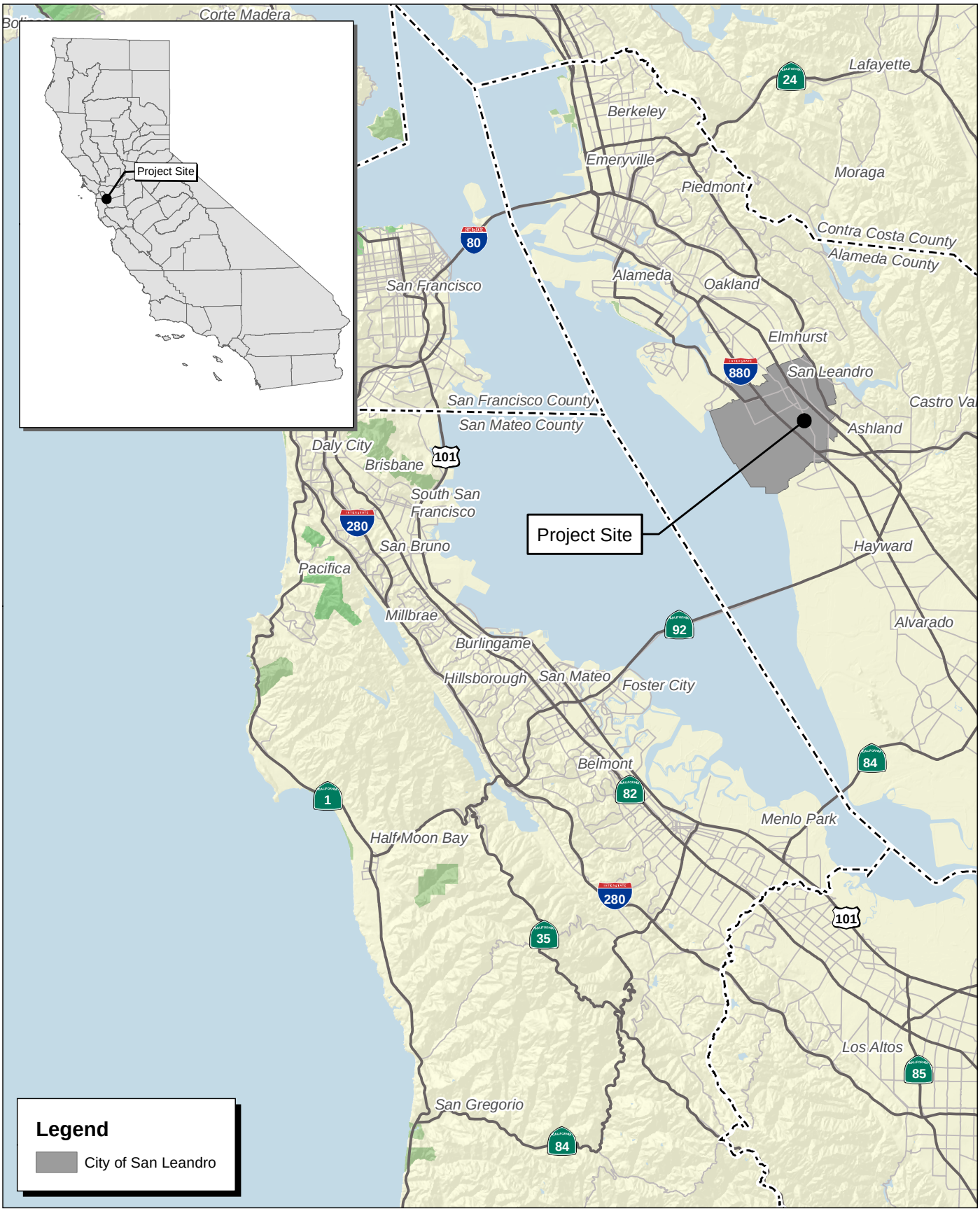
5 California Department of Fish and Wildlife (CDFW). 2022. CNDDB RareFind 5 California Natural Diversity Database Query for Special-Status Species. Website: https://map.dfg.ca.gov/rarefind/view /RareFind.aspx. Accessed March 2022.

6 United States Fish and Wildlife Service (USFWS). 2021. Information for Planning and Consultation (IPaC). Website: https://ecos.fws.gov/ipac/. Accessed March 2022.

7 California Native Plant Society (CNPS). 2020. California Native Plant Society Rare and Endangered Plant Electronic Inventory (CNPSEI). Website: http://www.rareplants.cnps.org/. Accessed March 2022.

8 United States Environmental Protection Agency (EPA). 2020. Watershed Assessment, Tracking and Environmental Results System (WATERS). Website: https://www.epa.gov/waterdata/waters-watershed-assessment-tracking-environmental-results-system. Accessed March 2022.



Source: Census 2000 Data, The California Spatial Information Library (CaSIL). Alameda County.

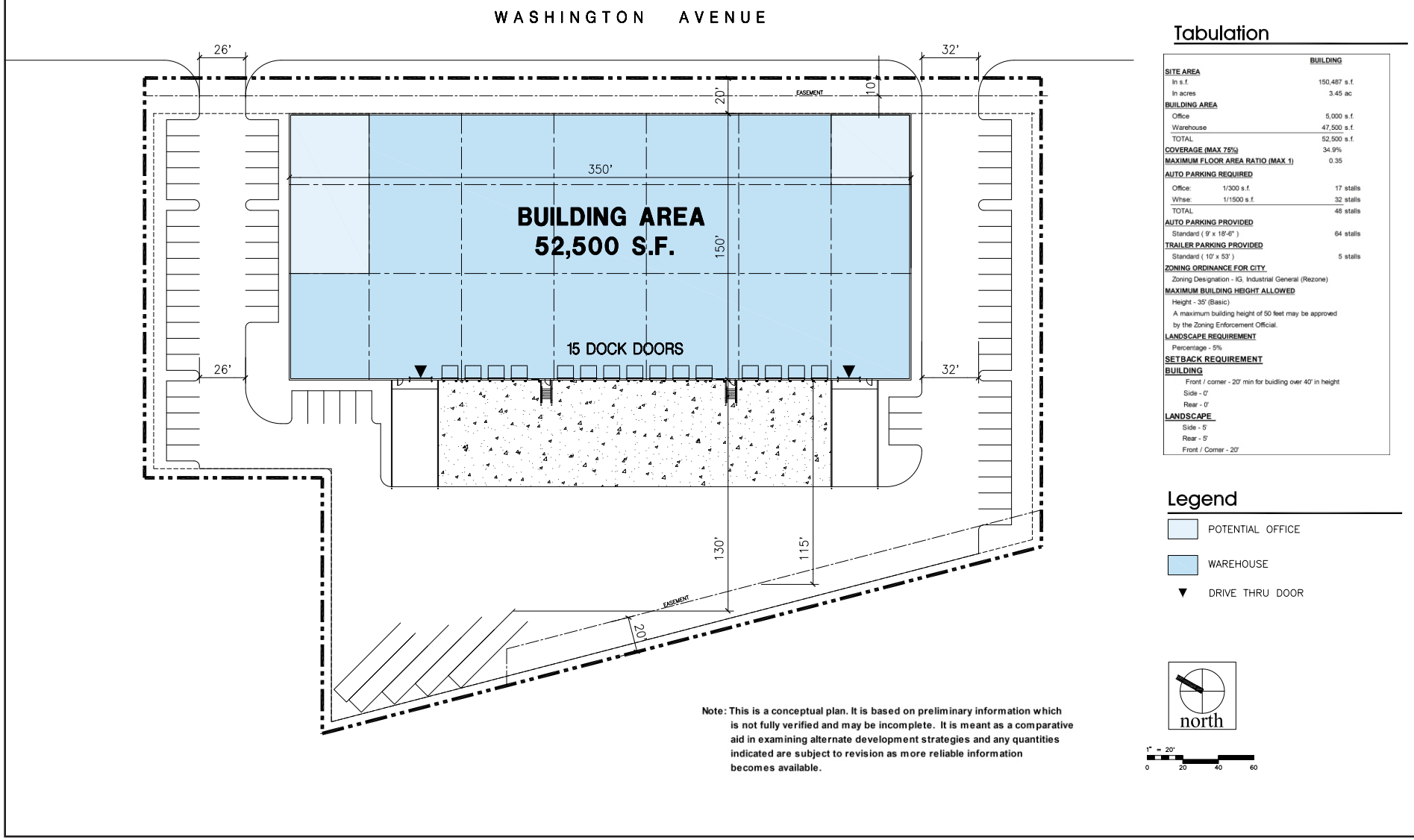
FIRSTCARBON SOLUTIONS™

5 2.5 0 5 Miles

Exhibit 1
Regional Location Map

41940003 • 04/2022 | 1_regional.mxd

FIRST INDUSTRIAL REALTY TRUST, INC.
14143 WASHINGTON AVENUE PROJECT
BIOLOGICAL RESOURCE ASSESSMENT



Source: HPA Architecture, March 11, 2021

FIRSTCARBON SOLUTIONS™

Exhibit 2
Site Plan

RESULTS

The following section summarizes the results of the literature review and biological resources survey, including existing conditions, special-status species, State or federally protected waters or wetlands, wildlife movement corridors and nursery sites, protected trees, and others, as detailed below.

Existing Conditions

Topography and Climate

The project site is flat and does not contain fluctuations in topography as it consists of a graded, developed site. Runoff would drain to the municipal stormwater system. Climate consists of mild coastal temperatures with minimal fluctuations (33°/84°F [degrees Fahrenheit]) and low (13-30 inches) yearly precipitation levels.

Soils

The NRCS Web Soil Survey maps the site as consisting of Clear Lake clay, drained, 0 to 2 percent slopes, MLRA 14.[9] However, the site is almost entirely covered with hardscape (pavement and buildings) and only small areas of exposed soil is present in form of backyards of the former residents located on the northern portion of the site, and along the site boundaries.

Vegetation Communities or Land Cover Types

Vegetation Communities and Land Cover Types are depicted on Exhibit 3 and described below.

Urban/Developed

The entire site (approximately 3.28 acres) can be classified as Urban/Developed. The approximately 0.22-acres of mixed ornamental tree cover are a part of the Urban/Developed land cover type but are evaluated and mapped separately in this report because of the potential value of tree cover in regard to biological resources (Exhibit 3).

Hardscaped and Landscaped

Developed land is characterized by permanent or semi-permanent structures, pavement, or hardscape and landscaped areas that often require irrigation. The Urban/Developed land cover type includes land that has been developed or otherwise covered with a permanent man-made surface. Areas where no natural land is evident, or because large amounts of debris or other materials have been placed upon it, may also be included. The project site contains large, paved areas, seven structures, a large former RV parking lot, and associated landscaped and hardscaped areas.

[9] Natural Resources Conservation Service (NRCS). 2020. United States Department of Agriculture (USDA). Soil Survey Official Soil Series Descriptions. Website: http://www.nrcs.usda.gov/. Accessed March 2022.

Because the structures on-site are now vacant, the site now includes small patches of ruderal vegetation interspersed throughout and primarily on the parcel boundaries. Therefore, these areas are not mapped and quantified separately, but are included in the Developed category, below.

The former backyards of the residences on the northern portion of the project site have converted to ruderal areas following the abandonment of these structures. Additionally, invasive plants ("weeds") have started to colonize the boundaries of the former RV business site at the southern portion of the site.

Vegetation observed included shortpod mustard (*Hirschfeldia incana*), ripgut brome (*Bromus diandrus*), fennel (*Foeniculum vulgare*), wild oat (*Avena fatua*), dandelion (*Taraxacum* sp.), bristly ox tongue (*Helminthotheca echioides*), burclover (*Medicago polymorpha*), cheeseweed (*Malva parviflora*), bamboo (subfamily Bambusoideae), stinkwort (*Dittrichia graveolens*), English ivy (*Helix hedera*), prickly lettuce (*Lactuca serriola*), and others.

Mixed Ornamental Tree Cover

The project site contains multiple clusters of ornamental trees. All trees are identified, mapped and evaluated in the Preliminary Tree Report (Attachment B). Because of the small and disjunct canopy cover, landscaped or hardscaped understory, and the species composition, these clusters of trees do not meet the characteristics of a woodland. However, individual trees may be protected (see Impact Analysis).

Wildlife

The site may provide habitat for generalist and opportunistic wildlife species that are able to tolerate high levels of habitat disturbance, including skunk (*Mephitis mephitis*), raccoon (*Procyon lotor*), mourning dove (*Zenaida macroura*), American crow (*Corvus brachyrhynchos*), and others. Wildlife observed during the field survey included crow (*Corvus brachyrhynchos*), Ana's hummingbird (*Calypte anna*), house finch (*Haemorhous mexicanus*), black phoebe (*Sayornis nigricans*), and California gull (*Larus californicus*).

The trees located on-site and the immediate vicinity could provide suitable habitat for migratory or resident nesting birds. No signs of bat roosts were observed during the field survey; however, many small openings in the existing structures on-site could provide roosting habitat for bats. However, the lack of natural foraging habitat and nearby human disturbance reduces the likelihood of bat use of this area.

Special-status Species

A review of the CNDDB, CNPS, and IPaC Inventories determined that 35 special-status plant species and 28 special-status animal species have been recorded within the regional vicinity of the project site (Attachment A). The parameters of these search queries included an area consisting of the *San Leandro, California*, USGS 7.5-minute Topographic Quadrangle Map and the eight surrounding quadrangles (regional vicinity). The likelihood and rationale for these species to occur are discussed in the paragraphs below. No special-status plants or animal species were observed during the field survey.

Special-status Plant Species

The project site includes only previously landscaped areas including heavily managed backyards and now small patches of ruderal vegetation consisting of non-native invasive species. The site does not contain suitable habitat for rare plant species, which would require valley grasslands, cismontane woodlands, chaparral, swamps, marshes, serpentine-derived substrate, or outcrops. Additionally, the site is cut-off from dispersal opportunities from regionally occurring special-status plant species populations by large swaths of surrounding development on all sides. No special-status plant species or vegetation communities or other conditions supporting sensitive plant species were observed during the spring 2022 survey conducted by a qualified Biologist. Therefore, it is reasonable to conclude that no special-status plant species occur on the project site.

Special-status Wildlife

The presence of 28 special-status wildlife species, as recorded within the regional area surrounding the project site (Appendix A; covering an area of about 450 square miles) require specific habitat conditions and dispersal opportunities. The required habitat types for these species include sufficiently large and suitable woodland, grassland, shrubland, rock outcroppings, serpentine-derived soils, specific native host-plants, saltmarsh/estuarine, or suitable freshwater aquatic habitats, or a combination thereof. None of these habitat types and conditions are present on the project site or adjacent areas. Additionally, the project site lacks dispersal opportunities from regionally occurring special-status wildlife species populations by large swaths of surrounding development on all sides. No special-status wildlife species or habitats supporting special-status wildlife species were observed during the 2022 survey conducted by a qualified Biologist. Therefore, it is reasonable to conclude that no special-status wildlife species occur on the project site or within disturbance distance.

Protected Functional Groups

Nesting birds and roosting bats include groups of species that are not listed as endangered, rare, or threatened but are protected under federal and State law under certain conditions, as described below.

Nesting Birds

The active nests of most bird species are protected by federal and/or State law (MBTA and Fish and Game Code). Species that are protected pursuant to MBTA are listed by the USFWS.[10] Nests are generally defined as being “active” if they contain eggs or altricial young. The project site contains trees, shrubs, and structures that provide suitable habitat for protected migratory or native resident nesting bird species relatively tolerant of human disturbance.

Roosting Bats

Trees and/or structures on-site are potentially capable of supporting protected bat roosts (e.g., maternity roosts) of bat species tolerant to urban settings, if structures remain unoccupied and

[10] United States Fish and Wildlife Service (USFWS). 2022. Website: https://www.federalregister.gov/documents/2020/04/16/2020-06779/general-provisions-revised-list-of-migratory-birds.

vegetation unmanaged for more than approximately one month before demolition. Protection of bats is defined in the Regulatory Settings section above.

State or Federally Protected Waters and Wetlands

No wetlands or other aquatic features that meet criteria as waters of the United States or State were observed within the proposed project site during the reconnaissance-level survey.

Wildlife Movement Corridors

Wildlife movement corridors link areas of suitable wildlife habitat that are otherwise separated by rugged terrain, changes in vegetation, or human disturbance. Urbanization and the resulting fragmentation of open space areas create isolated "islands" of wildlife habitat, forming separated populations. Corridors act as an effective link between populations.

The project site was evaluated for evidence of wildlife movement corridors during the field survey. The project site is developed and is surrounded in all directions by extensive urban development, roadways and other man-made structures that serve as barriers to wildlife movement. The site does not provide value as a wildlife movement corridor.

Nursery Sites

The only potential wildlife nursery opportunities on-site could include nesting birds and maternity bat roosts, as discussed in the section Protected Functional Groups, above.

Protected Trees

Per the Revised Arborist Report (Attachment B), 23 trees representing six species with a diameter equal to or more than 6 inches diameter are present on the site. These trees are subject to Site Plan Approval and therefore potentially protected through SLMC Chapter 5.2 or SLZC Section 4.16.112.

Applicable Habitat Conservation Plans

The proposed project does not lie within the boundaries of any adopted HCP, NCCP, or other approved local, regional, or State HCP.[11]

[11] California Department of Fish and Wildlife (CDFW). 2022. NCCP Plan Summaries. Website: https://wildlife.ca.gov/conservation/planning/nccp/plans. Accessed March 2022.

Source: Bing Aerial Imagery.

FIRSTCARBON SOLUTIONS™

100 50 0 100 Feet

Exhibit 3
Land Cover Types and Vegetation Communities

IMPACT ANALYSIS

The following section analyzes potential project-related impacts on special-status species and protected functional groups such as nesting birds or roosting bats, as identified as present or potentially present in Section 4.3 above. Sensitive communities, special-status plant or wildlife species, and wildlife movement corridors were determined to have no potential to occur on the project site (see Results section for details); therefore, no impacts would occur, and no further impact analysis is warranted.

The impact analysis for the remaining protected nesting birds and roosting bats is based on the project plans and assumes demolition of all current structures and subsequent construction of new residential structures and infrastructure.

Impact Analysis Related to Protected Functional Groups

Nesting Birds

If active bird nests of any federally or State-protected species are present on the project site or within disturbance distance, the proposed project has the potential to disturb/disrupt protected bird nesting by removal of trees, shrubs, or structures and, in the immediate vicinity of construction activity, potentially leading to direct destruction or premature nest abandonment and therefore take of protected nests (i.e., eggs or altricial young). With implementation of Avoidance and Minimization Measure (AMM)-1 (see below), this potential impact can be reduced to a less than significant level.

Roosting Bats

If bat roosts are present on the project site or within disturbance distance, demolition activities have the potential to disturb/disrupt protected bat roosts, potentially leading to direct destruction or premature roost abandonment and loss of bats (including young or rare/sensitive bat species). With implementation of AMM-2 (see below), this potential impact can be reduced to a less than significant level.

Impact Analysis Related to Protected Trees

The Revised Arborist Report (Attachment B) includes an impact analysis based on the site plan and recommendations for preservation of specific trees, including the mature redwood trees along Washington Avenue suitable for preservation. Additionally, impact avoidance and minimization measures are recommended. Adherence to additional tree protection guidelines specified in an updated Arborist Report is also recommended to minimize impacts. With implementation of the preservation measures listed in the Revised Arborist Report, and adherence to any additional tree preservation requirements following site plan approval, no significant impacts to protected trees are anticipated.

Consistency with General Plan Policies Related to Biological Resources

Applicable General Plan Policies related to biological resources are summarized in the Regulatory Background Section, above. With preparation and submittal of this BRA, and implementation of the

avoidance and minimization measures below, the proposed project would be consistent with General Plan Policies.

AVOIDANCE AND MINIMIZATION RECOMMENDATIONS

The following section includes recommended avoidance and minimization measures to reduce the above identified potential impacts on nesting birds, roosting bats, and potentially protected trees to a less than significant level.

AMM-1 Nesting Birds

If the project is implemented during the nesting season (generally February 15 to August 31), a qualified Biologist shall conduct a nesting bird survey no more than 7 days prior to start of construction to determine whether or not protected active bird nests are present within the disturbance zone of the project site.

If a protected active nest is located during the pre-construction surveys, a qualified Biologist shall determine a nest protection buffer based on species and anticipated disturbance level. The buffer shall be physically marked on-site, e.g., using fencing, pin flags, and or yellow caution tape. The buffer zone will be maintained around the active nest site(s) until the young have fledged and are foraging independently.

AMM-2 Roosting Bats

If tree removal, heavy vegetation modifications, or demolition of existing structures is proposed, trees and/or structures with features capable of supporting roosting bats (both maternity and wintering or hibernation roosts) shall be surveyed by a qualified Biologist for bat roosts or evidence of bat roosting (guano, urine staining and scent, dead bats) not more than 14 days before the start of disturbance, including vegetation removal. If active roosts are discovered, a protection zone of no less than 50 feet around the active roost shall be established by the qualified Biologist. Disturbance may occur within the once active roosting ceases, as determined by the qualified Biologist.

AMM-3 Protected Trees

The project applicant shall submit the Preliminary Arborist Report and the Revised Arborist Report to the City of San Leandro for Site Plan Approval pursuant SLMC Chapter 5.2 or SLZC Section 4.16.112. The project applicant shall obtain approval from the City of San Leandro for tree removal based on the Arborist Report and shall follow all conditions of the approval.

Attachment A:
Literature Search Results

Summary Table Report

California Department of Fish and Wildlife

California Natural Diversity Database

Query Criteria: Quad IS (San Leandro (3712262) OR Oakland West (3712273) OR Oakland East (3712272) OR Las Trampas Ridge (3712271) OR Hayward (3712261) OR Newark (3712251) OR Redwood Point (3712252) OR San Mateo (3712253) OR Hunters Point (3712263))

Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Acanthomintha duttonii San Mateo thorn-mint	G1 S1	Endangered Endangered	Rare Plant Rank - 1B.1 SB_UCBG-UC Botanical Garden at Berkeley	325 550	5 S:2	0	0	0	0	1	1	2	0	1	1	0
Accipiter cooperii Cooper's hawk	G5 S4	None None	CDFW_WL-Watch List IUCN_LC-Least Concern	30 950	118 S:3	0	0	1	0	0	2	0	3	3	0	0
Accipiter striatus sharp-shinned hawk	G5 S4	None None	CDFW_WL-Watch List IUCN_LC-Least Concern	1,180 1,180	22 S:1	1	0	0	0	0	0	1	0	1	0	0
Acipenser medirostris pop. 1 green sturgeon - southern DPS	G2T1 S1	Threatened None	AFS_VU-Vulnerable IUCN_EN-Endangered	0 0	14 S:2	0	2	0	0	0	0	0	2	2	0	0
Agelaius tricolor tricolored blackbird	G1G2 S1S2	None Threatened	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern	5 21	955 S:2	0	0	0	0	1	1	2	0	1	1	0
Allium peninsulare var. franciscanum Franciscan onion	G5T2 S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	20 500	25 S:6	1	2	0	0	0	3	3	3	6	0	0
Ambystoma californiense pop. 1 California tiger salamander - central California DPS	G2G3T3 S3	Threatened Threatened	CDFW_WL-Watch List IUCN_VU-Vulnerable	20 1,111	1271 S:3	0	1	0	0	1	1	2	1	2	0	1
Amsinckia lunaris bent-flowered fiddleneck	G3 S3	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_UCBG-UC Botanical Garden at Berkeley SB_UCSC-UC Santa Cruz	220 1,611	93 S:18	0	3	2	0	0	13	3	15	18	0	0

Summary Table Report

California Department of Fish and Wildlife

California Natural Diversity Database

Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Anomobryum julaceum slender silver moss	G5? S2	None None	Rare Plant Rank - 4.2		13 S:1	0	0	0	0	0	1	1	0	1	0	0
Antrozous pallidus pallid bat	G4 S3	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	30 770	420 S:11	0	0	0	0	0	11	11	0	11	0	0
Aquila chrysaetos golden eagle	G5 S3	None None	BLM_S-Sensitive CDF_S-Sensitive CDFW_FP-Fully Protected CDFW_WL-Watch List IUCN_LC-Least Concern	950 1,560	325 S:2	1	1	0	0	0	0	2	0	2	0	0
Arctostaphylos pallida pallid manzanita	G1 S1	Threatened Endangered	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	1,120 1,500	9 S:6	0	0	4	1	1	0	1	5	5	1	0
Ardea herodias great blue heron	G5 S4	None None	CDF_S-Sensitive IUCN_LC-Least Concern	1 300	156 S:2	1	1	0	0	0	0	1	1	2	0	0
Asio flammeus short-eared owl	G5 S3	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern		11 S:1	0	0	0	0	0	1	1	0	1	0	0
Astragalus pycnostachyus var. pycnostachyus coastal marsh milk-vetch	G2T2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_SBBG-Santa Barbara Botanic Garden SB_UCBG-UC Botanical Garden at Berkeley		24 S:1	0	0	0	0	0	1	1	0	1	0	0
Astragalus tener var. tener alkali milk-vetch	G2T1 S1	None None	Rare Plant Rank - 1B.2 SB_UCSC-UC Santa Cruz	5 70	65 S:7	0	0	0	0	7	0	7	0	0	3	4

Summary Table Report

California Department of Fish and Wildlife

California Natural Diversity Database

Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Athene cunicularia burrowing owl	G4 S3	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern	2 60	2011 S:9	0	4	1	0	2	2	6	3	7	2	0
Balsamorhiza macrolepis big-scale balsamroot	G2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive USFS_S-Sensitive	500 500	51 S:2	1	0	0	0	0	1	2	0	2	0	0
Bombus caliginosus obscure bumble bee	G2G3 S1S2	None None	IUCN_VU-Vulnerable	10 1,200	181 S:6	0	0	0	0	0	6	6	0	6	0	0
Bombus crotchii Crotch bumble bee	G2 S2	None Candidate Endangered	IUCN_EN-Endangered	175 700	437 S:2	0	0	0	0	0	2	1	1	2	0	0
Bombus occidentalis western bumble bee	G3 S1	None Candidate Endangered	IUCN_VU-Vulnerable USFS_S-Sensitive	10 1,000	306 S:13	0	0	0	0	0	13	13	0	13	0	0
Calicina minor Edgewood blind harvestman	G1 S1	None None		400 400	2 S:1	0	0	0	0	0	1	1	0	1	0	0
Calochortus pulchellus Mt. Diablo fairy-lantern	G2 S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	1,200 1,250	52 S:2	0	0	0	0	0	2	2	0	2	0	0
Carex comosa bristly sedge	G5 S2	None None	Rare Plant Rank - 2B.1 IUCN_LC-Least Concern	0 0	31 S:1	0	0	0	0	1	0	1	0	0	0	1
Centromadia parryi ssp. congdonii Congdon's tarplant	G3T2 S2	None None	Rare Plant Rank - 1B.1 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	5 40	96 S:6	0	0	2	1	1	2	3	3	5	0	1
Charadrius nivosus nivosus western snowy plover	G3T3 S3	Threatened None	CDFW_SSC-Species of Special Concern NABCI_RWL-Red Watch List	0 15	138 S:9	1	2	0	0	1	5	6	3	8	1	0

Summary Table Report

California Department of Fish and Wildlife

California Natural Diversity Database

Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Chloropyron maritimum ssp. palustre Point Reyes salty bird's-beak	G4?T2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	5 7	80 S:6	0	1	0	0	5	0	5	1	1	5	0
Chorizanthe cuspidata var. cuspidata San Francisco Bay spineflower	G2T1 S1	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	20 20	17 S:1	0	0	0	0	1	0	1	0	0	0	1
Chorizanthe robusta var. robusta robust spineflower	G2T1 S1	Endangered None	Rare Plant Rank - 1B.1	30 30	20 S:1	0	0	0	0	1	0	1	0	0	1	0
Cicindela hirticollis gravida sandy beach tiger beetle	G5T2 S2	None None		10 10	34 S:1	0	0	0	0	1	0	1	0	0	0	1
Circus hudsonius northern harrier	G5 S3	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern	5 10	54 S:6	0	1	0	0	0	5	5	1	6	0	0
Cirsium fontinale var. fontinale fountain thistle	G2T1 S1	Endangered Endangered	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	400 400	5 S:1	0	1	0	0	0	0	0	1	1	0	0
Clarkia concinna ssp. automixa Santa Clara red ribbons	G5?T3 S3	None None	Rare Plant Rank - 4.3 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	400 400	20 S:1	0	0	0	0	0	1	1	0	1	0	0
Clarkia franciscana Presidio clarkia	G1 S1	Endangered Endangered	Rare Plant Rank - 1B.1 SB_UCBG-UC Botanical Garden at Berkeley	1,000 1,000	4 S:1	0	1	0	0	0	0	0	1	1	0	0
Collinsia multicolor San Francisco collinsia	G2 S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_UCSC-UC Santa Cruz	150 520	36 S:6	0	3	0	0	0	3	0	6	6	0	0

Summary Table Report

California Department of Fish and Wildlife

California Natural Diversity Database

Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Corynorhinus townsendii Townsend's big-eared bat	G4 S2	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	710 710	635 S:1	0	0	0	0	1	0	1	0	0	1	0
Coturnicops noveboracensis yellow rail	G4 S1S2	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern NABCI_RWL-Red Watch List USFS_S-Sensitive USFWS_BCC-Birds of Conservation Concern	0 20	45 S:4	0	0	0	0	0	4	3	1	4	0	0
Danaus plexippus plexippus pop. 1 monarch - California overwintering population	G4T1T2 S2	Candidate None	IUCN_EN-Endangered USFS_S-Sensitive	5 200	388 S:10	0	2	2	0	0	6	0	10	10	0	0
Dipodomys heermanni berkeleyensis Berkeley kangaroo rat	G4T1 S2	None None		580 1,400	8 S:5	0	0	0	0	0	5	4	1	5	0	0
Dipodomys venustus venustus Santa Cruz kangaroo rat	G4T1 S1	None None		42 42	29 S:1	0	0	0	0	1	0	1	0	0	1	0
Dirca occidentalis western leatherwood	G2 S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	255 1,655	90 S:20	2	9	2	0	0	7	5	15	20	0	0
Efferia antiochi Antioch efferian robberfly	G1G2 S1S2	None None		350 350	4 S:1	0	0	0	0	0	1	1	0	1	0	0
Elanus leucurus white-tailed kite	G5 S3S4	None None	BLM_S-Sensitive CDFW_FP-Fully Protected IUCN_LC-Least Concern	5 10	184 S:7	0	1	0	0	0	6	7	0	7	0	0
Emys marmorata western pond turtle	G3G4 S3	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_VU-Vulnerable USFS_S-Sensitive	300 560	1421 S:7	1	4	1	0	0	1	2	5	7	0	0

Summary Table Report

California Department of Fish and Wildlife

California Natural Diversity Database

Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Eriogonum luteolum var. caninum Tiburon buckwheat	G5T2 S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	850 950	26 S:3	0	0	1	0	0	2	0	3	3	0	0
Eriophyllum latilobum San Mateo woolly sunflower	G1 S1	Endangered Endangered	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	100 100	8 S:1	0	1	0	0	0	0	0	1	1	0	0
Eryngium aristulatum var. hooveri Hoover's button-celery	G5T1 S1	None None	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	10 10	16 S:1	0	0	1	0	0	0	0	1	1	0	0
Eryngium jepsonii Jepson's coyote-thistle	G2 S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	330 675	19 S:3	0	0	0	0	0	3	2	1	3	0	0
Eucyclogobius newberryi tidewater goby	G3 S3	Endangered None	AFS_EN-Endangered IUCN_NT-Near Threatened	5 10	127 S:2	0	0	0	0	1	1	2	0	1	0	1
Eumops perotis californicus western mastiff bat	G4G5T4 S3S4	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern	120 120	296 S:1	0	0	0	0	0	1	1	0	1	0	0
Euphydryas editha bayensis Bay checkerspot butterfly	G5T1 S1	Threatened None		300 1,300	30 S:4	0	0	0	0	4	0	4	0	0	1	3
Extriplex joaquinana San Joaquin spearscale	G2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	10 10	127 S:3	0	0	0	0	2	1	3	0	1	2	0
Falco peregrinus anatum American peregrine falcon	G4T4 S3S4	Delisted Delisted	CDF_S-Sensitive CDFW_FP-Fully Protected	0 5	73 S:2	0	1	0	0	0	1	0	2	2	0	0
Fissidens pauperculus minute pocket moss	G3? S2	None None	Rare Plant Rank - 1B.2 USFS_S-Sensitive	985 985	22 S:1	0	0	0	0	0	1	1	0	1	0	0

Summary Table Report

California Department of Fish and Wildlife

California Natural Diversity Database

Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Fritillaria biflora var. ineziana Hillsborough chocolate lily	G3G4T1 S1	None None	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_UCBG-UC Botanical Garden at Berkeley SB_USDA-US Dept of Agriculture	550 550	2 S:2	0	1	0	0	0	1	1	1	2	0	0
Fritillaria liliacea fragrant fritillary	G2 S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden USFS_S-Sensitive	200 550	82 S:10	0	2	1	1	1	5	5	5	9	1	0
Geothlypis trichas sinuosa saltmarsh common yellowthroat	G5T3 S3	None None	CDFW_SSC-Species of Special Concern USFWS_BCC-Birds of Conservation Concern	0 10	112 S:9	1	1	1	0	0	6	8	1	9	0	0
Gilia capitata ssp. chamissonis blue coast gilia	G5T2 S2	None None	Rare Plant Rank - 1B.1 SB_UCBG-UC Botanical Garden at Berkeley	100 100	37 S:1	0	0	0	1	0	0	1	0	1	0	0
Gilia millefoliata dark-eyed gilia	G2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden		54 S:1	0	0	0	0	1	0	1	0	0	0	1
Gonidea angulata western ridged mussel	G3 S1S2	None None	IUCN_VU-Vulnerable	200 200	157 S:1	0	0	0	0	1	0	1	0	0	1	0
Helianthella castanea Diablo helianthella	G2 S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	500 1,800	107 S:25	4	6	3	0	1	11	14	11	24	1	0
Helminthoglypta nickliniana bridgesi Bridges' coast range shoulderband	G3T1 S1S2	None None	IUCN_DD-Data Deficient	1,400 1,400	6 S:1	0	0	0	0	0	1	1	0	1	0	0
Hemizonia congesta ssp. congesta congested-headed hayfield tarplant	G5T2 S2	None None	Rare Plant Rank - 1B.2 SB_UCBG-UC Botanical Garden at Berkeley		52 S:1	0	0	0	0	0	1	1	0	1	0	0

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						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Hesperevax sparsiflora var. brevifolia short-leaved evax	G4T3 S3	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	400 400	72 S:1	0	0	0	0	0	1	1	0	1	0	0
Hesperolinon congestum Marin western flax	G1 S1	Threatened Threatened	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_UCBG-UC Botanical Garden at Berkeley	200 600	27 S:5	0	2	2	0	1	0	2	3	4	1	0
Heteranthera dubia water star-grass	G5 S2	None None	Rare Plant Rank - 2B.2 IUCN_LC-Least Concern		9 S:1	0	0	0	0	0	1	1	0	1	0	0
Hoita strobilina Loma Prieta hoita	G2? S2?	None None	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden		37 S:1	0	0	0	0	1	0	1	0	0	1	0
Holocarpha macradenia Santa Cruz tarplant	G1 S1	Threatened Endangered	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_UCBG-UC Botanical Garden at Berkeley	100 100	37 S:3	0	0	0	0	3	0	3	0	0	1	2
Horkelia cuneata var. sericea Kellogg's horkelia	G4T1? S1?	None None	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_UCSC-UC Santa Cruz USFS_S-Sensitive	20 20	58 S:2	0	0	0	0	2	0	2	0	0	2	0
Hydrochara rickseckeri Ricksecker's water scavenger beetle	G2? S2?	None None		35 35	13 S:1	0	0	0	0	0	1	1	0	1	0	0
Ischnura gemina San Francisco forktail damselfly	G2 S2	None None	IUCN_EN-Endangered	75 75	7 S:1	0	0	0	0	0	1	1	0	1	0	0

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						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Lasionycteris noctivagans silver-haired bat	G3G4 S3S4	None None	IUCN_LC-Least Concern	400 400	139 S:1	0	0	0	0	0	1	1	0	1	0	0
Lasiurus cinereus hoary bat	G3G4 S4	None None	IUCN_LC-Least Concern	325 660	238 S:6	0	0	0	0	0	6	6	0	6	0	0
Lasthenia conjugens Contra Costa goldfields	G1 S1	Endangered None	Rare Plant Rank - 1B.1 SB_UCBG-UC Botanical Garden at Berkeley	5 10	36 S:2	0	0	0	0	1	1	2	0	1	0	1
Laterallus jamaicensis coturniculus California black rail	G3T1 S1	None Threatened	BLM_S-Sensitive CDFW_FP-Fully Protected IUCN_EN-Endangered NABCI_RWL-Red Watch List	1 51	303 S:16	3	2	3	1	2	5	9	7	14	2	0
Layia carnosa beach layia	G2 S2	Threatened Endangered	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_SBBG-Santa Barbara Botanic Garden	40 40	25 S:1	0	0	0	0	1	0	1	0	0	0	1
Leptosiphon rosaceus rose leptosiphon	G1 S1	None None	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden		31 S:1	0	0	0	0	1	0	1	0	0	1	0
Lessingia arachnoidea Crystal Springs lessingia	G2 S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	300 500	11 S:4	1	1	0	0	0	2	1	3	4	0	0
Malacothamnus arcuatus arcuate bush-mallow	G2Q S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	10 500	34 S:4	0	1	0	0	1	2	2	2	3	0	1
Masticophis lateralis euryxanthus Alameda whipsnake	G4T2 S2	Threatened Threatened		175 1,600	167 S:51	10	18	7	1	2	13	25	26	49	2	0

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						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Meconella oregana Oregon meconella	G2G3 S2	None None	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	1,300 1,550	9 S:2	0	0	0	0	0	2	1	1	2	0	0
Melospiza melodia pusillula Alameda song sparrow	G5T2T3 S2S3	None None	CDFW_SSC-Species of Special Concern USFWS_BCC-Birds of Conservation Concern	1 1,300	38 S:25	0	13	0	0	0	12	13	12	25	0	0
Microcina leei Lee's micro-blind harvestman	G1 S1	None None		600 600	2 S:1	0	0	0	0	0	1	1	0	1	0	0
Microcina lumi Lum's micro-blind harvestman	G1 S1	None None		400 600	2 S:2	0	0	0	0	0	2	2	0	2	0	0
Monolopia gracilens woodland woollythreads	G3 S3	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	640 640	68 S:2	0	0	0	0	0	2	2	0	2	0	0
Nannopterum auritum double-crested cormorant	G5 S4	None None	CDFW_WL-Watch List IUCN_LC-Least Concern	1 30	39 S:3	1	0	0	0	0	2	2	1	3	0	0
Neotoma fuscipes annectens San Francisco dusky-footed woodrat	G5T2T3 S2S3	None None	CDFW_SSC-Species of Special Concern	311 713	42 S:6	1	1	1	0	0	3	0	6	6	0	0
Northern Coastal Salt Marsh Northern Coastal Salt Marsh	G3 S3.2	None None		10 15	53 S:10	0	1	0	0	0	9	10	0	10	0	0
Northern Maritime Chaparral Northern Maritime Chaparral	G1 S1.2	None None		1,300 1,300	17 S:1	0	0	0	0	0	1	1	0	1	0	0
Nycticorax nycticorax black-crowned night heron	G5 S4	None None	IUCN_LC-Least Concern	10 10	37 S:1	0	0	1	0	0	0	1	0	1	0	0
Nyctinomops macrotis big free-tailed bat	G5 S3	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	175 175	32 S:1	0	0	0	0	0	1	1	0	1	0	0
Oncorhynchus mykiss irideus pop. 8 steelhead - central California coast DPS	G5T2T3Q S3	Threatened None	AFS_TH-Threatened	200 200	44 S:1	0	0	0	0	0	1	1	0	1	0	0

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						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Pentachaeta bellidiflora white-rayed pentachaeta	G1 S1	Endangered Endangered	Rare Plant Rank - 1B.1 SB_UCBG-UC Botanical Garden at Berkeley		14 S:1	0	0	0	0	0	1	1	0	1	0	0
Plagiobothrys chorisianus var. chorisianus Choris' popcornflower	G3T1Q S1	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_UCSC-UC Santa Cruz	20 415	42 S:2	0	1	0	0	1	0	1	1	1	0	1
Plagiobothrys diffusus San Francisco popcornflower	G1Q S1	None Endangered	Rare Plant Rank - 1B.1 SB_UCSC-UC Santa Cruz	920 920	17 S:1	0	0	1	0	0	0	1	0	1	0	0
Plagiobothrys glaber hairless popcornflower	GX SX	None None	Rare Plant Rank - 1A	15 20	9 S:2	0	0	0	0	2	0	2	0	0	0	2
Polygonum marinense Marin knotweed	G2Q S2	None None	Rare Plant Rank - 3.1		32 S:1	0	0	0	0	0	1	1	0	1	0	0
Pomatiopsis californica Pacific walker	G1 S1	None None	IUCN_DD-Data Deficient	20 20	4 S:2	0	0	0	0	2	0	2	0	0	1	1
Rallus obsoletus obsoletus California Ridgway's rail	G3T1 S1	Endangered Endangered	CDFW_FP-Fully Protected NABCI_RWL-Red Watch List	0 15	99 S:23	3	7	5	1	1	6	8	15	22	1	0
Rana boylii pop. 4 foothill yellow-legged frog - central coast DPS	G3T2 S2	Proposed Threatened Endangered	BLM_S-Sensitive USFS_S-Sensitive	120 1,101	178 S:7	0	1	0	0	6	0	7	0	1	1	5
Rana draytonii California red-legged frog	G2G3 S2S3	Threatened None	CDFW_SSC-Species of Special Concern IUCN_VU-Vulnerable	45 4,005	1683 S:23	2	8	3	2	0	8	9	14	23	0	0
Reithrodontomys raviventris salt-marsh harvest mouse	G1G2 S1S2	Endangered Endangered	CDFW_FP-Fully Protected IUCN_EN-Endangered	1 5	144 S:25	3	2	0	0	0	20	24	1	25	0	0
Riparia riparia bank swallow	G5 S2	None Threatened	BLM_S-Sensitive IUCN_LC-Least Concern	10 10	299 S:1	0	0	0	0	0	1	1	0	1	0	0

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						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Rynchops niger black skimmer	G5 S2	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern NABCI_YWL-Yellow Watch List USFWS_BCC-Birds of Conservation Concern	3 3	7 S:1	1	0	0	0	0	0	1	0	1	0	0
Sanicula maritima adobe sanicle	G2 S2	None Rare	Rare Plant Rank - 1B.1 SB_SBBG-Santa Barbara Botanic Garden USFS_S-Sensitive		17 S:1	0	0	0	0	1	0	1	0	0	0	1
Scapanus latimanus parvus Alameda Island mole	G5T1Q SH	None None	CDFW_SSC-Species of Special Concern	10 30	8 S:8	0	0	0	0	8	0	8	0	0	8	0
Senecio aphanactis chaparral ragwort	G3 S2	None None	Rare Plant Rank - 2B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_CRES-San Diego Zoo CRES Native Gene Seed Bank	640 640	98 S:2	0	0	0	0	0	2	2	0	2	0	0
Serpentine Bunchgrass Serpentine Bunchgrass	G2 S2.2	None None		500 1,120	22 S:3	1	0	1	0	0	1	3	0	3	0	0
Setophaga petechia yellow warbler	G5 S3S4	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	280 280	78 S:1	0	1	0	0	0	0	1	0	1	0	0
Sorex vagrans halicoetes salt-marsh wandering shrew	G5T1 S1	None None	CDFW_SSC-Species of Special Concern	1 2	12 S:7	0	0	0	0	0	7	7	0	7	0	0
Spergularia macrotheca var. longistyla long-styled sand-spurrey	G5T2 S2	None None	Rare Plant Rank - 1B.2	10 10	22 S:2	0	0	0	0	0	2	2	0	2	0	0
Speyeria zerene myrtleae Myrtle's silverspot butterfly	G5T1 S1	Endangered None		20 20	17 S:1	0	0	0	0	1	0	1	0	0	0	1
Spirinchus thaleichthys longfin smelt	G5 S1	Candidate Threatened	IUCN_LC-Least Concern	0 0	46 S:2	0	0	0	0	0	2	1	1	2	0	0

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						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Sternula antillarum browni California least tern	G4T2T3Q S2	Endangered Endangered	CDFW_FP-Fully Protected NABCI_RWL-Red Watch List	1 10	75 S:9	1	1	0	0	2	5	8	1	7	0	2
Streptanthus albidus ssp. peramoenus most beautiful jewelflower	G2T2 S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_UCBG-UC Botanical Garden at Berkeley USFS_S-Sensitive	800 900	103 S:6	0	0	1	0	0	5	3	3	6	0	0
Stuckenia filiformis ssp. alpina northern slender pondweed	G5T5 S2S3	None None	Rare Plant Rank - 2B.2	40 1,600	21 S:2	0	0	0	0	0	2	2	0	2	0	0
Suaeda californica California seablite	G1 S1	Endangered None	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	5 5	18 S:7	0	0	1	0	2	4	2	5	5	1	1
Taxidea taxus American badger	G5 S3	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	700 1,000	594 S:2	0	0	0	0	0	2	2	0	2	0	0
Thamnophis sirtalis tetrataenia San Francisco gartersnake	G5T2Q S2	Endangered Endangered	CDFW_FP-Fully Protected	250 300	66 S:2	0	2	0	0	0	0	1	1	2	0	0
Trifolium hydrophilum saline clover	G2 S2	None None	Rare Plant Rank - 1B.2	10 10	56 S:5	0	0	0	0	3	2	4	1	2	0	3
Triphysaria floribunda San Francisco owl's-clover	G2? S2?	None None	Rare Plant Rank - 1B.2	5 125	50 S:4	0	0	0	0	2	2	4	0	2	1	1
Tryonia imitator mimic tryonia (=California brackishwater snail)	G2 S2	None None	IUCN_DD-Data Deficient	0 0	39 S:2	0	0	0	0	2	0	2	0	0	0	2
Valley Needlegrass Grassland Valley Needlegrass Grassland	G3 S3.1	None None		500 500	45 S:1	0	0	1	0	0	0	1	0	1	0	0
Viburnum ellipticum oval-leaved viburnum	G4G5 S3?	None None	Rare Plant Rank - 2B.3	600 600	39 S:2	0	0	0	0	0	2	2	0	2	0	0

California Natural Diversity Database (CNDDB) Commercial [ds85]

Scientific Name	Common Name	Element Code	Occ Number	MAPNDX	EONDX	Key Quad Code	Key Quad Name	Key County Code	Accuracy	Presence	Occ Type	Occ Rank	Sensitive	Site Date	Elm Date	Owner Management	Federal Status
Geothlypis trichas sinuosa	saltmarsh common yellowthroat	ABPBX1201A	67	09348	328	3712262	San Leandro	ALA	specific area	Presumed Extant	Natural/Native occurrence	Excellent	N	19951220	19951220	EBRPD	None
Laterallus jamaicensis coturniculus	California black rail	ABNME03041	100	09348	330	3712262	San Leandro	ALA	specific area	Presumed Extant	Natural/Native occurrence	Excellent	N	2011XXXX	19951121	EBRPD	None
Sorex vagrans halicoetes	salt-marsh wandering shrew	AMABA01071	11	09348	333	3712262	San Leandro	ALA	specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	19380225	19380225	EBRPD	None
Reithrodontomys raviventris	salt-marsh harvest mouse	AMAFF02040	59	09348	329	3712262	San Leandro	ALA	specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	19380629	19380629	EBRPD	Endangered
Northern Coastal Salt Marsh	Northern Coastal Salt Marsh	CTT52110CA	51	09348	331	3712262	San Leandro	ALA	specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	198511XX	198511XX	EBRPD	None
Centromadia parryi ssp. congdonii	Congdon's tarplant	PDAST4R0P1	22	25572	5889	3712262	San Leandro	ALA	non-specific area	Extirpated	Natural/Native occurrence	None	N	19981004	19090924	UNKNOWN	None
Ardea herodias	great blue heron	ABNGA04010	37	17153	9700	3712261	Hayward	ALA	specific area	Presumed Extant	Natural/Native occurrence	Good	N	19900613	19900613	EBRPD	None
Nannopterum auritum	double-crested cormorant	ABNFD01020	27	25571	5671	3712252	Redwood Point	SMT	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	1988XXXX	1988XXXX	CALTRANS	None
Danaus plexippus pop. 1	monarch - California overwintering population	IILEPP2012	322	33524	21345	3712262	San Leandro	ALA	specific area	Presumed Extant	Natural/Native occurrence	Fair	N	201411XX	201411XX	CITY OF SAN LEANDRO	Candidate
Laterallus jamaicensis coturniculus	California black rail	ABNME03041	110	34893	29290	3712262	San Leandro	ALA	specific area	Presumed Extant	Natural/Native occurrence	Good	N	2003XXXX	2003XXXX	EBRPD	None
Northern Coastal Salt Marsh	Northern Coastal Salt Marsh	CTT52110CA	14	09153	16155	3712253	San Mateo	SMT	specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	197706XX	197706XX	UNKNOWN	None
Astragalus tener var. tener	alkali milk-vetch	PDFAB0F8R1	14	24691	29535	3712261	Hayward	ALA	4/5 mile	Extirpated	Natural/Native occurrence	None	N	20020308	19360412	UNKNOWN	None
Plagiobothrys glaber	hairless popcornflower	PDBOR0V0B0	7	24691	29536	3712261	Hayward	ALA	4/5 mile	Possibly Extirpated	Natural/Native occurrence	None	N	18930616	18930616	UNKNOWN	None
Astragalus tener var. tener	alkali milk-vetch	PDFAB0F8R1	13	24690	6919	3712261	Hayward	ALA	1/5 mile	Extirpated	Natural/Native occurrence	None	N	20020308	189105XX	UNKNOWN	None
Astragalus tener var. tener	alkali milk-vetch	PDFAB0F8R1	16	24692	6920	3712262	San Leandro	ALA	1/5 mile	Possibly Extirpated	Natural/Native occurrence	None	N	20020308	19590430	UNKNOWN	None
Reithrodontomys raviventris	salt-marsh harvest mouse	AMAFF02040	87	09463	23854	3712252	Redwood Point	ALA	1/5 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	198507XX	198507XX	UNKNOWN	Endangered
Reithrodontomys raviventris	salt-marsh harvest mouse	AMAFF02040	117	09469	23835	3712262	San Leandro	ALA	1/5 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19850722	19850722	EBRPD	Endangered
Reithrodontomys raviventris	salt-marsh harvest mouse	AMAFF02040	89	09539	23851	3712251	Newark	ALA	1/5 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19850626	19850626	PVT	Endangered
Athene cunicularia	burrowing owl	ABNSB10010	164	23819	16759	3712262	San Leandro	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Fair	N	19910626	19910626	EBRPD-HAYWARD RS	None
Charadrius nivosus nivosus	western snowy plover	ABNNB03031	122	24693	6824	3712262	San Leandro	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Excellent	N	2009XXXX	2009XXXX	EBRPD-HAYWARD RS	Threatened
Rynchops niger	black skimmer	ABNNM14010	3	30174	19781	3712262	San Leandro	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Excellent	N	19940707	19940707	EBRPD	None
Reithrodontomys raviventris	salt-marsh harvest mouse	AMAFF02040	100	09439	23843	3712262	San Leandro	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Excellent	N	20030801	20030801	CITY OF SAN LEANDRO	Endangered
Masticophis lateralis euryxanthus	Alameda whipsnake	ARADB21031	23	09554	27609	3712271	Las Trampas Ridge	ALA	specific area	Presumed Extant	Natural/Native occurrence	Good	N	19900630	19900630	EBMUD	Threatened
Sternula antillarum browni	California least tern	ABNNM08103	2	09269	13027	3712262	San Leandro	ALA	1/5 mile	Extirpated	Natural/Native occurrence	None	N	1976XXXX	1975XXXX	UNKNOWN	Endangered
Athene cunicularia	burrowing owl	ABNSB10010	52	09365	13006	3712262	San Leandro	ALA	1/5 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	198305XX	198305XX	PORT OF OAKLAND	None
Charadrius nivosus nivosus	western snowy plover	ABNNB03031	90	24694	5296	3712262	San Leandro	ALA	specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	197905XX	197905XX	UNKNOWN	Threatened
Reithrodontomys raviventris	salt-marsh harvest mouse	AMAFF02040	86	09492	14549	3712252	Redwood Point	ALA	specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	198507XX	198507XX	PVT	Endangered
Reithrodontomys raviventris	salt-marsh harvest mouse	AMAFF02040	84	09510	14550	3712251	Newark	ALA	specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	198507XX	198506XX	UNKNOWN	Endangered
Reithrodontomys raviventris	salt-marsh harvest mouse	AMAFF02040	101	09570	14546	3712251	Newark	ALA	specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	198606XX	198606XX	ALA COUNTY, PVT	Endangered
Northern Coastal Salt Marsh	Northern Coastal Salt Marsh	CTT52110CA	18	09560	16148	3712251	Newark	ALA	specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	197706XX	197706XX	UNKNOWN	None
Valley Needlegrass Grassland	Valley Needlegrass Grassland	CTT42110CA	52	20269	9577	3712261	Hayward	ALA	specific area	Presumed Extant	Natural/Native occurrence	Fair	N	19910616	19910616	CITY OF ALAMEDA	None
Helianthella castanea	Diablo helianthella	PDAST4M020	10	09412	1307	3712272	Oakland East	ALA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19250422	19250422	UNKNOWN	None
Chorizanthe robusta var. robusta	robust spineflower	PDPGN040Q2	1	20604	30367	3712272	Oakland East	ALA	1 mile	Possibly Extirpated	Natural/Native occurrence	None	N	189410XX	189410XX	UNKNOWN	Endangered
Horkelia cuneata var. sericea	Kellogg's horkelia	PDROS0W043	34	20604	30366	3712272	Oakland East	ALA	1 mile	Possibly Extirpated	Natural/Native occurrence	None	N	198XXXXX	1894XXXX	UNKNOWN	None

Sorex vagrans halicoetes	salt-marsh wandering shrew	AMABA01071	14	09464	12952	3712262	San Leandro	ALA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	1983XXXX	19510521	EBRPD, UNKNOWN	None
Rallus obsoletus obsoletus	California Ridgway's rail	ABNME05011	9	09494	25865	3712252	Redwood Point	ALA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	1975XXXX	1975XXXX	UNKNOWN	Endangered
Circus hudsonius	northern harrier	ABNKC11011	1	09494	27024	3712252	Redwood Point	ALA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19730416	19730416	UNKNOWN	None
Fritillaria liliacea	fragrant fritillary	PMLIL0V0C0	39	25043	25384	3712261	Hayward	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Fair	N	19900219	19900219	UNKNOWN	None
Fritillaria liliacea	fragrant fritillary	PMLIL0V0C0	51	25046	6238	3712272	Oakland East	ALA	1 mile	Possibly Extirpated	Natural/Native occurrence	None	N	19200411	19200411	UNKNOWN	None
Sorex vagrans halicoetes	salt-marsh wandering shrew	AMABA01071	12	09327	24354	3712262	San Leandro	ALA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	1985XXXX	19500927	PORT OF OAKLAND	None
Euphydryas editha bayensis	Bay checkerspot butterfly	IILEPK4055	11	09458	12920	3712272	Oakland East	ALA	1 mile	Extirpated	Natural/Native occurrence	None	N	1980XXXX	197XXXXX	UNKNOWN	Threatened
Sternula antillarum browni	California least tern	ABNNM08103	70	09479	25653	3712252	Redwood Point	ALA	1/5 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19880830	19880830	PVT	Endangered
Reithrodontomys raviventris	salt-marsh harvest mouse	AMAFF02040	85	09513	23853	3712251	Newark	ALA	1/5 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	198507XX	198507XX	UNKNOWN	Endangered
Sternula antillarum browni	California least tern	ABNNM08103	4	09519	25709	3712251	Newark	ALA	1/5 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	1988XXXX	1988XXXX	PVT-LESLIE SALT CO	Endangered
Reithrodontomys raviventris	salt-marsh harvest mouse	AMAFF02040	90	09542	23850	3712251	Newark	ALA	1/5 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19850619	19850619	PVT	Endangered
Elanus leucurus	white-tailed kite	ABNKC06010	4	24573	21403	3712251	Newark	ALA	2/5 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	1971XXXX	1971XXXX	DFG-EDEN LANDING ER, UNKNOWN	None
Rallus obsoletus obsoletus	California Ridgway's rail	ABNME05011	78	33651	30802	3712252	Redwood Point	ALA	1/5 mile	Presumed Extant	Natural/Native occurrence	Good	N	199307XX	199307XX	EBRPD-HAYWARD RS	Endangered
Sternula antillarum browni	California least tern	ABNNM08103	3	09287	25710	3712262	San Leandro	ALA	1/5 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	1996XXXX	1992XXXX	PORT OF OAKLAND	Endangered
Astragalus tener var. tener	alkali milk-vetch	PDFAB0F8R1	17	20604	34619	3712272	Oakland East	ALA	1 mile	Possibly Extirpated	Natural/Native occurrence	None	N	20020308	19280324	UNKNOWN	None
Athene cunicularia	burrowing owl	ABNSB10010	19	09291	25490	3712262	San Leandro	ALA	2/5 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19830530	19830530	PVT	None
Streptanthus albidus ssp. peramoenus	most beautiful jewelflower	PDBRA2G012	25	40917	40917	3712272	Oakland East	ALA	2/5 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	XXXXXXXX	XXXXXXXX	UNKNOWN	None
Geothlypis trichas sinuosa	saltmarsh common yellowthroat	ABPBX1201A	7	09540	24853	3712251	Newark	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	1976XXXX	1976XXXX	PVT	None
Oncorhynchus mykiss irideus pop. 8	steelhead - central California coast DPS	AFCHA0209G	2	41531	41531	3712158	Niles	ALA	specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	199903XX	199903XX	ALA COUNTY-FLOOD CONTROL DIST	Threatened
Reithrodontomys raviventris	salt-marsh harvest mouse	AMAFF02040	77	09476	23856	3712252	Redwood Point	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	198512XX	198512XX	PVT-LESLIE SALT CO	Endangered
Sorex vagrans halicoetes	salt-marsh wandering shrew	AMABA01071	5	09477	24360	3712252	Redwood Point	ALA	1/10 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	198512XX	198512XX	PVT-LESLIE SALT CO	None
Chloropyron maritimum ssp. palustre	Point Reyes salty bird's-beak	PDSCR0J0C3	20	42153	42153	3712262	San Leandro	ALA	1 mile	Possibly Extirpated	Natural/Native occurrence	None	N	19910825	19210807	UNKNOWN	None
Reithrodontomys raviventris	salt-marsh harvest mouse	AMAFF02040	54	09486	14558	3712262	San Leandro	ALA	specific area	Presumed Extant	Natural/Native occurrence	Excellent	N	19990929	19990929	EBRPD, CITY OF HAYWARD	Endangered
Ambystoma californiense pop. 1	California tiger salamander - central California DPS	AAAAA01181	435	20604	45661	3712272	Oakland East	ALA	1 mile	Extirpated	Natural/Native occurrence	None	N	188601XX	188601XX	UNKNOWN	Threatened
Holocarpha macradenia	Santa Cruz tarplant	PDAST4X020	15	48966	48966	3712261	Hayward	ALA	3/5 mile	Possibly Extirpated	Natural/Native occurrence	None	N	19150904	19150904	UNKNOWN	Threatened
Suaeda californica	California seablite	PDCHE0P020	13	49213	49213	3712262	San Leandro	ALA	1/5 mile	Possibly Extirpated	Natural/Native occurrence	None	N	19581004	19581004	UNKNOWN	Endangered
Astragalus tener var. tener	alkali milk-vetch	PDFAB0F8R1	15	46503	5297	3712262	San Leandro	ALA	1 mile	Extirpated	Natural/Native occurrence	None	N	20020308	19370417	UNKNOWN	None
Lasthenia conjugens	Contra Costa goldfields	PDAST5L040	37	24692	51719	3712262	San Leandro	ALA	1/5 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19590329	19590329	UNKNOWN	Endangered
Centromadia parryi ssp. congdonii	Congdon's tarplant	PDAST4R0P1	59	51420	51420	3712262	San Leandro	ALA	1/10 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19581011	19581011	UNKNOWN	None
Taxidea taxus	American badger	AMAJF04010	135	56789	56805	3712272	Oakland East	ALA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19300323	19300323	UNKNOWN	None
Tryonia imitator	mimic tryonia (=California brackishwater snail)	IMGASJ7040	24	57925	57941	3712262	San Leandro	ALA	non-specific area	Extirpated	Natural/Native occurrence	None	N	1947XXXX	XXXXXXXX	PVT	None
Microcina lumi	Lum's micro-blind harvestman	ILARA47050	1	58406	58442	3712261	Hayward	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Unknown	N	19820406	19820406	UNKNOWN	None
Microcina lumi	Lum's micro-blind harvestman	ILARA47050	2	58409	58445	3712261	Hayward	ALA	specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	19690126	19690126	UNKNOWN	None
Geothlypis trichas sinuosa	saltmarsh common yellowthroat	ABPBX1201A	98	59963	59999	3712251	Newark	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	1985XXXX	1985XXXX	UNKNOWN	None
Melospiza melodia pusillula	Alameda song sparrow	ABPBXA301S	4	60563	60599	3712262	San Leandro	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Good	N	20040509	20040509	EBRPD-HAYWARD RS	None

Melospiza melodia pusillula	Alameda song sparrow	ABPBXA301S	5	60566	60602	3712262	San Leandro	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Good	N	20040509	20040509	EBRPD-HAYWARD RS	None
Melospiza melodia pusillula	Alameda song sparrow	ABPBXA301S	8	60592	60628	3712252	Redwood Point	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Good	N	199309XX	199309XX	DFG-EDEN LANDING ER, UNK	None
Melospiza melodia pusillula	Alameda song sparrow	ABPBXA301S	9	60598	60634	3712252	Redwood Point	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Good	N	20040524	20040524	UNKNOWN	None
Scapanus latimanus parvus	Alameda Island mole	AMABB02031	1	60815	60851	3712273	Oakland West	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Unknown	N	19380301	19380301	UNKNOWN	None
Scapanus latimanus parvus	Alameda Island mole	AMABB02031	3	60818	60854	3712273	Oakland West	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Unknown	N	19371206	19371206	UNKNOWN	None
Scapanus latimanus parvus	Alameda Island mole	AMABB02031	5	60819	60855	3712272	Oakland East	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Unknown	N	19371211	19371211	UNKNOWN	None
Scapanus latimanus parvus	Alameda Island mole	AMABB02031	2	60816	60852	3712273	Oakland West	ALA	1/10 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19581025	19581025	UNKNOWN	None
Scapanus latimanus parvus	Alameda Island mole	AMABB02031	6	60820	60856	3712273	Oakland West	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Unknown	N	19440806	19440806	UNKNOWN	None
Scapanus latimanus parvus	Alameda Island mole	AMABB02031	7	60822	60858	3712273	Oakland West	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Unknown	N	19450815	19450815	UNKNOWN	None
Scapanus latimanus parvus	Alameda Island mole	AMABB02031	8	20604	60859	3712272	Oakland East	ALA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19440921	19440921	UNKNOWN	None
Melospiza melodia pusillula	Alameda song sparrow	ABPBXA301S	18	60908	60944	3712262	San Leandro	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	19460919	19460919	UNKNOWN	None
Melospiza melodia pusillula	Alameda song sparrow	ABPBXA301S	22	60932	60968	3712262	San Leandro	ALA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19080401	19080401	UNKNOWN	None
Melospiza melodia pusillula	Alameda song sparrow	ABPBXA301S	33	20604	60997	3712272	Oakland East	ALA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19210421	19210421	UNKNOWN	None
Sanicula maritima	adobe sanicle	PDAPI1Z0D0	6	20604	61072	3712272	Oakland East	ALA	1 mile	Extirpated	Natural/Native occurrence	None	N	1936XXXX	1936XXXX	UNKNOWN	None
Circus hudsonius	northern harrier	ABNKC11011	32	61105	61141	3712262	San Leandro	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Good	N	20040509	20040509	EBRPD-HAYWARD RS	None
Melospiza melodia pusillula	Alameda song sparrow	ABPBXA301S	19	60913	60949	3712262	San Leandro	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	19391227	19391227	UNKNOWN	None
Dirca occidentalis	western leatherwood	PDTHY03010	46	63956	64051	3712272	Oakland East	ALA	2/5 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	XXXXXXXX	XXXXXXXX	UNKNOWN	None
Balsamorhiza macrolepis	big-scale balsamroot	PDAST11061	24	64744	64823	3712261	Hayward	ALA	1/5 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19970312	19970312	UNKNOWN	None
Helianthella castanea	Diablo helianthella	PDAST4M020	82	65959	66038	3712271	Las Trampas Ridge	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	199XXXXX	199XXXXX	EBMUD	None
Nycticorax nycticorax	black-crowned night heron	ABNGA11010	20	66219	66297	3712252	Redwood Point	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Fair	N	19930929	19930929	CALTRANS	None
Eumops perotis californicus	western mastiff bat	AMACD02011	159	66419	66515	3712261	Hayward	ALA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	189901XX	189901XX	UNKNOWN	None
Antrozous pallidus	pallid bat	AMACC10010	130	66477	66587	3712261	Hayward	ALA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19320412	19320412	UNKNOWN	None
Antrozous pallidus	pallid bat	AMACC10010	129	66419	66586	3712261	Hayward	ALA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	XXXXXXXX	XXXXXXXX	UNKNOWN	None
Rallus obsoletus obsoletus	California Ridgway's rail	ABNME05011	91	66960	59297	3712253	San Mateo	SMT	specific area	Presumed Extant	Natural/Native occurrence	Good	N	20060318	20060318	CITY OF SAN MATEO	Endangered
Rallus obsoletus obsoletus	California Ridgway's rail	ABNME05011	90	59213	59249	3712262	San Leandro	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Good	N	20060408	20060408	EBRPD, CITY OF SAN LORENZO	Endangered
Rallus obsoletus obsoletus	California Ridgway's rail	ABNME05011	107	67028	67176	3712262	San Leandro	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Good	N	20060412	20060412	EBRPD	Endangered
Rallus obsoletus obsoletus	California Ridgway's rail	ABNME05011	33	09278	29095	3712273	Oakland West	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Fair	N	20031209	20060330	EBRPD	Endangered
Rallus obsoletus obsoletus	California Ridgway's rail	ABNME05011	108	67039	67190	3712262	San Leandro	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Fair	N	20060329	20060329	CITY OF ALAMEDA	Endangered
Rallus obsoletus obsoletus	California Ridgway's rail	ABNME05011	77	33350	13021	3712262	San Leandro	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Good	N	20060406	20060406	EBRPD-HAYWARD RS	Endangered
Rallus obsoletus obsoletus	California Ridgway's rail	ABNME05011	85	47339	47339	3712272	Oakland East	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Good	N	20060403	20060403	UNKNOWN	Endangered
Rallus obsoletus obsoletus	California Ridgway's rail	ABNME05011	110	67070	67219	3712272	Oakland East	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Poor	N	20060404	20060404	CITY OF ALAMEDA	Endangered
Accipiter cooperii	Cooper's hawk	ABNKC12040	114	67530	67691	3712262	San Leandro	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Unknown	N	20060630	20060630	EBRPD	None
Accipiter cooperii	Cooper's hawk	ABNKC12040	115	67531	67692	3712272	Oakland East	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Fair	N	20060630	20060630	EBRPD	None
Sternula antillarum browni	California least tern	ABNNM08103	82	68249	68401	3712262	San Leandro	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Excellent	N	20060731	20060731	EBRPD-HAYWARD RS	Endangered
Lasiurus cinereus	hoary bat	AMACC05030	14	68480	68771	3712261	Hayward	ALA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19200211	19200211	UNKNOWN	None
Masticophis lateralis euryxanthus	Alameda whipsnake	ARADB21031	84	68814	69335	3712271	Las Trampas Ridge	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Excellent	N	20060516	20060516	EBRPD-ANTHONY CHABOT RP	Threatened
Masticophis lateralis euryxanthus	Alameda whipsnake	ARADB21031	85	68816	69339	3712271	Las Trampas Ridge	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Excellent	N	20060506	20060506	EBRPD-ANTHONY CHABOT RP	Threatened
Malacothamnus arcuatus	arcuate bush-mallow	PDMAL0Q0E0	27	68929	69553	3712253	San Mateo	SMT	1 mile	Extirpated	Natural/Native occurrence	None	N	19350411	19350411	PVT	None

Athene cunicularia	burrowing owl	ABNSB10010	946	69403	70179	3712251	Newark	ALA	1/10 mile	Presumed Extant	Natural/Native occurrence	Good	N	20060125	20060125	PVT	None
Masticophis lateralis euryxanthus	Alameda whipsnake	ARADB21031	94	73079	74009	3712271	Las Trampas Ridge	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Excellent	N	20080919	20080919	EBMUD	Threatened
Rana draytonii	California red-legged frog	AAABH01022	1071	74933	75936	3712271	Las Trampas Ridge	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Excellent	N	20081014	20081014	EBMUD	Threatened
Laterallus jamaicensis coturniculus	California black rail	ABNME03041	219	76137	77133	3712262	San Leandro	ALA	1/10 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	20070426	20070426	EBRPD-HAYWARD RS	None
Masticophis lateralis euryxanthus	Alameda whipsnake	ARADB21031	143	79088	80054	3712271	Las Trampas Ridge	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Unknown	N	20020508	20020508	EBMUD	Threatened
Charadrius nivosus nivosus	western snowy plover	ABNNB03031	136	79175	80145	3712251	Newark	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Good	N	20170907	20170907	DFG-EDEN LANDING ER	Threatened
Masticophis lateralis euryxanthus	Alameda whipsnake	ARADB21031	1	72662	1306	3712272	Oakland East	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	19530126	19530126	CITY OF OAKLAND, PVT	Threatened
Monolopia gracilens	woodland woollythreads	PDAST6G010	45	79221	80201	3712272	Oakland East	ALA	5 miles	Presumed Extant	Natural/Native occurrence	Unknown	N	1888XXXX	1888XXXX	UNKNOWN	None
Balsamorhiza macrolepis	big-scale balsamroot	PDAST11061	2	30913	3838	3712261	Hayward	ALA	specific area	Presumed Extant	Natural/Native occurrence	Excellent	N	20020409	20020409	ALA COUNTY	None
Streptanthus albidus ssp. peramoenus	most beautiful jewelflower	PDBRA2G012	69	63180	63272	3712272	Oakland East	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	19940502	19940502	CITY OF OAKLAND	None
Helianthella castanea	Diablo helianthella	PDAST4M020	36	27828	366	3712261	Hayward	ALA	specific area	Presumed Extant	Natural/Native occurrence	Fair	N	20020327	20020327	EBRPD-ANTHONY CHABOT RP	None
Fritillaria liliacea	fragrant fritillary	PMLIL0V0C0	38	25042	17813	3712261	Hayward	ALA	specific area	Presumed Extant	Natural/Native occurrence	Poor	N	20100315	20100315	EBRPD-ANTHONY CHABOT RP	None
Fritillaria liliacea	fragrant fritillary	PMLIL0V0C0	67	83432	84452	3712261	Hayward	ALA	specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	20040311	20040311	EBRPD-ANTHONY CHABOT RP	None
Fritillaria liliacea	fragrant fritillary	PMLIL0V0C0	68	83435	84454	3712261	Hayward	ALA	specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	20100315	20100315	EBRPD-ANTHONY CHABOT RP	None
Trifolium hydrophilum	saline clover	PDFAB400R5	28	20604	84582	3712272	Oakland East	ALA	1 mile	Extirpated	Natural/Native occurrence	None	N	18950516	18950516	UNKNOWN	None
Centromadia parryi ssp. congdonii	Congdon's tarplant	PDAST4R0P1	12	83610	29534	3712262	San Leandro	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Fair	N	20090920	20090920	PVT	None
Polygonum marinense	Marin knotweed	PDPGN0L1C0	18	88206	89212	3712272	Oakland East	ALA	5 miles	Presumed Extant	Natural/Native occurrence	Unknown	N	1863XXXX	1863XXXX	UNKNOWN	None
Spirinchus thaleichthys	longfin smelt	AFCHB03010	22	89718	90720	3712252	Redwood Point	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	1995XXXX	1995XXXX	UNKNOWN	Candidate
Spirinchus thaleichthys	longfin smelt	AFCHB03010	24	89723	90726	3712284	San Quentin	MRN	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	20100902	20100902	UNKNOWN	Candidate
Hoita strobilina	Loma Prieta hoita	PDFAB5Z030	9	79221	50139	3712272	Oakland East	ALA	5 miles	Possibly Extirpated	Natural/Native occurrence	None	N	1865XXXX	1865XXXX	UNKNOWN	None
Suaeda californica	California seablite	PDCHE0P020	20	98001	99400	3712262	San Leandro	ALA	3/5 mile	Presumed Extant	Transplant Outside of Native Hab./Range	Unknown	N	200909XX	200909XX	CITY OF SAN LEANDRO	Endangered
Suaeda californica	California seablite	PDCHE0P020	9	46503	5295	3712262	San Leandro	ALA	1 mile	Extirpated	Natural/Native occurrence	None	N	19430912	19430912	UNKNOWN	Endangered
Danaus plexippus pop. 1	monarch - California overwintering population	IILEPP2012	413	98348	99770	3712262	San Leandro	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	201311XX	201211XX	HAYWARD AREA RPD	Candidate
Danaus plexippus pop. 1	monarch - California overwintering population	IILEPP2012	323	33525	8330	3712262	San Leandro	ALA	1/5 mile	Presumed Extant	Natural/Native occurrence	Good	N	201411XX	201411XX	CITY OF SAN LEANDRO	Candidate
Danaus plexippus pop. 1	monarch - California overwintering population	IILEPP2012	414	98352	99774	3712262	San Leandro	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	201411XX	20120129	EBRPD	Candidate
Bombus occidentalis	western bumble bee	IIHYM24250	221	98722	100158	3712262	San Leandro	ALA	3/5 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19850610	19850610	UNKNOWN	None
Bombus occidentalis	western bumble bee	IIHYM24250	224	98726	100184	3712262	San Leandro	ALA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19540712	19540712	UNKNOWN	None
Bombus occidentalis	western bumble bee	IIHYM24250	226	66419	100194	3712261	Hayward	ALA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19191003	19191003	UNKNOWN	None
Rallus obsoletus obsoletus	California Ridgway's rail	ABNME05011	34	67061	332	3712262	San Leandro	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Fair	N	20150401	20150401	EBRPD	Endangered
Gilia millefoliata	dark-eyed gilia	PDPLM04130	43	88206	102966	3712272	Oakland East	ALA	5 miles	Extirpated	Natural/Native occurrence	None	N	1863XXXX	1863XXXX	UNKNOWN	None
Eryngium jepsonii	Jepson's coyote-thistle	PDAPI0Z130	5	A2092	103662	3712261	Hayward	ALA	1/10 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	20100714	20100714	EBRPD-ANTHONY CHABOT RP	None
Coturnicops noveboracensis	yellow rail	ABNME01010	4	20604	106945	3712272	Oakland East	ALA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19051030	19051030	UNKNOWN	None
Coturnicops noveboracensis	yellow rail	ABNME01010	39	09348	107057	3712262	San Leandro	ALA	specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	20080121	20080121	EBRPD	None
Spergularia macrotheca var. longistyla	long-styled sand-spurrey	PDCAR0W062	14	46503	109303	3712262	San Leandro	ALA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19XXXXXX	19XXXXXX	UNKNOWN	None
Rana boylii	foothill yellow-legged frog	AAABH01050	2344	66419	112226	3712261	Hayward	ALA	1 mile	Possibly Extirpated	Natural/Native occurrence	None	N	19600830	19600830	UNKNOWN	None

Centromadia parryi ssp. congdonii	Congdon's tarplant	PDAST4R0P1	104	B2710	114644	3712262	San Leandro	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Fair	N	20171110	20171110	ORO LOMA SANITARY DISTRICT	None
Gonidea angulata	western ridged mussel	IMBIV19010	135	41531	118986	3712158	Niles	ALA	specific area	Possibly Extirpated	Natural/Native occurrence	None	N	XXXXXXXX	XXXXXXXX	UNKNOWN	None
Bombus occidentalis	western bumble bee	IIHYM24250	286	B6114	119153	3712271	Las Trampas Ridge	ALA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19940911	19940911	EBRPD	None
Laterallus jamaicensis coturniculus	California black rail	ABNME03041	323	A3780	105430	3712273	Oakland West	ALA	1 mile	Possibly Extirpated	Natural/Native occurrence	None	N	19101216	19101216	UNKNOWN	None
Coturnicops noveboracensis	yellow rail	ABNME01010	5	A5235	106948	3712251	Newark	ALA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	18831228	18831228	UNKNOWN	None
Laterallus jamaicensis coturniculus	California black rail	ABNME03041	322	A3778	105428	3712262	San Leandro	ALA	4/5 mile	Possibly Extirpated	Natural/Native occurrence	None	N	18971026	18971026	UNKNOWN	None
Pomatiopsis californica	Pacific walker	IMGASJ9020	2	88206	120913	3712272	Oakland East	ALA	5 miles	Extirpated	Natural/Native occurrence	None	N	18XXXXXX	18XXXXXX	UNKNOWN	None
Calochortus pulchellus	Mt. Diablo fairy-lantern	PMLIL0D160	57	A7609	109390	3712271	Las Trampas Ridge	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Unknown	N	2004XXXX	1993XXXX	EBMUD	None
Clarkia concinna ssp. automixa	Santa Clara red ribbons	PDONA050A1	20	34559	20472	3712272	Oakland East	ALA	1 mile	Presumed Extant	Natural/Native occurrence	Unknown	N	19360522	19360522	UNKNOWN	None
Laterallus jamaicensis coturniculus	California black rail	ABNME03041	306	A3407	105044	3712251	Newark	ALA	non-specific area	Presumed Extant	Natural/Native occurrence	Fair	N	20160210	20160210	DFG-EDEN LANDING ER	None
Falco peregrinus anatum	American peregrine falcon	ABNKD06071	32	69296	70079	3712253	San Mateo	SMT	80 meters	Presumed Extant	Natural/Native occurrence	Unknown	Y	20070515	20070515		Delisted
Falco peregrinus anatum	American peregrine falcon	ABNKD06071	54	A0837	102397	3712272	Oakland East	ALA	80 meters	Presumed Extant	Natural/Native occurrence	Good	Y	20140514	20140514		Delisted
Fritillaria biflora var. ineziana	Hillsborough chocolate lily	PMLIL0V0M1	2	26561	1675	3712253	San Mateo	SMT	specific area	Presumed Extant	Natural/Native occurrence	Good	Y	20160322	20160322		None
Thamnophis sirtalis tetrataenia	San Francisco gartersnake	ARADB3613B	2	09024	14768	3712243	Woodside	SMT	non-specific area	Presumed Extant	Natural/Native occurrence	Good	Y	20160205	20160205		Endangered
Thamnophis sirtalis tetrataenia	San Francisco gartersnake	ARADB3613B	10	08937	27537	3712253	San Mateo	SMT	1/5 mile	Presumed Extant	Natural/Native occurrence	Good	Y	19870505	19870505		Endangered

Search Results

14 matches found. Click on scientific name for details

Search Criteria: CRPR is one of [**1A:1B:2A:2B**] Fed List is one of [**FE:FT:FC**] **or** State List is one of [**CE:CT:CR:CE:CT**] , 9-Quad include [**3712272:3712252:3712251:3712262:3712271:3712261:3712273:3712263:3712253**]

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	BLOOMING PERIOD	FED LIST	STATE LIST	GLOBAL RANK	STATE RANK	CA RARE PLANT RANK	PHOTO
Acanthomintha duttonii	San Mateo thorn-mint	Lamiaceae	annual herb	Apr-Jun	FE	CE	G1	S1	1B.1	© 2011 Aaron Schusteff
Arctostaphylos pallida	pallid manzanita	Ericaceae	perennial evergreen shrub	Dec-Mar	FT	CE	G1	S1	1B.1	No Photo Available
Chorizanthe robusta var. *robusta*	robust spineflower	Polygonaceae	annual herb	Apr-Sep	FE	None	G2T1	S1	1B.1	No Photo Available
Cirsium fontinale var. *fontinale*	fountain thistle	Asteraceae	perennial herb	(Apr)May-Oct	FE	CE	G2T1	S1	1B.1	No Photo Available
Clarkia franciscana	Presidio clarkia	Onagraceae	annual herb	May-Jul	FE	CE	G1	S1	1B.1	No Photo Available
Eriophyllum latilobum	San Mateo woolly sunflower	Asteraceae	perennial herb	May-Jun	FE	CE	G1	S1	1B.1	No Photo Available
Hesperolinon congestum	Marin western flax	Linaceae	annual herb	Apr-Jul	FT	CT	G1	S1	1B.1	© 2009 Neal Kramer
Holocarpha macradenia	Santa Cruz tarplant	Asteraceae	annual herb	Jun-Oct	FT	CE	G1	S1	1B.1	© 2011 Dylan Neubauer
Lasthenia conjugens	Contra Costa goldfields	Asteraceae	annual herb	Mar-Jun	FE	None	G1	S1	1B.1	© 2013 Neal Kramer

Layia carnosa	beach layia	Asteraceae	annual herb	Mar-Jul	FE	CE	G2	S2	1B.1	© 2007 Aaron Schusteff
Pentachaeta bellidiflora	white-rayed pentachaeta	Asteraceae	annual herb	Mar-May	FE	CE	G1	S1	1B.1	No Photo Available
Plagiobothrys diffusus	San Francisco popcornflower	Boraginaceae	annual herb	Mar-Jun	None	CE	G1Q	S1	1B.1	No Photo Available
Sanicula maritima	adobe sanicle	Apiaceae	perennial herb	Feb-May	None	CR	G2	S2	1B.1	No Photo Available
Suaeda californica	California seablite	Chenopodiaceae	perennial evergreen shrub	Jul-Oct	FE	None	G1	S1	1B.1	No Photo Available

Showing 1 to 14 of 14 entries

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Attachment B:
Revised Arborist Report

Revised Arborist Report

14143-14273 Washington Avenue
San Leandro, CA

PREPARED FOR:
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Lafayette, CA 94569

PREPARED BY:
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February 2022
Revised February 2023

HORT SCIENCE
BARTLETT CONSULTING
Divisions of The F.A. Bartlett Tree Expert Company

Revised Arborist Report

14143-14273 Washington Avenue
San Leandro, CA

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Attachments

Tree Assessment Map

Tree Assessment Form

Introduction and Overview

First Industrial Realty Trust, Inc. is planning the redevelopment of 14143-14273 Washington Avenue in San Leandro, CA. The site is currently a mix of commercial and residential buildings with associated parking lots and landscapes. HortScience | Bartlett Consulting was asked to prepare a **Preliminary Arborist Report** was asked to revise a **Preliminary Arborist Report** produced in February 2022 for the site as part of the application to the City of San Leandro, this report responds to that request.

This report provides the following information:

1. Assessment of the health and structural condition of the trees within the proposed project area based on a visual inspection from the ground.
2. Evaluation of the impacts to trees based on development plans.
3. Guidelines for tree preservation during the design, construction and maintenance phases of development.

Tree Assessment Methods

Trees were assessed on January 10, 2022. The assessment included all trees 6" and greater, located within and adjacent to the project area. There were no offsite trees. The assessment procedure consisted of the following steps:

1. Identifying the tree species.
2. Verifying or tagging trees and recording locations on a map.
3. Measuring the trunk diameter at a point 54 inches above grade.
4. Evaluating the health and structural condition using a scale of 1 – 5:
   - ***5*** - A healthy, vigorous tree, reasonably free of signs and symptoms of disease, with good structure and form typical of the species.
   - ***4*** - Tree with slight decline in vigor, small amount of twig dieback, minor structural defects that could be corrected.
   - ***3*** - Tree with moderate vigor, moderate twig and small branch dieback, thinning of crown, poor leaf color, moderate structural defects that might be mitigated with regular care.
   - ***2*** - Tree in decline, epicormic growth, extensive dieback of medium to large branches, significant structural defects that cannot be abated.
   - ***1*** - Tree in severe decline, dieback of scaffold branches and/or trunk; most of foliage from epicormics; extensive structural defects that cannot be abated.
5. Rating the suitability for preservation as "high", "moderate" or "low". Suitability for preservation considers the health, age and structural condition of the tree, and its potential to remain an asset to the site for years to come.
   - ***High***: Trees with good health and structural stability that have the potential for longevity at the site.
   - ***Moderate***: Trees with somewhat declining health and/or structural defects than can be abated with treatment. The tree will require more intense management, monitoring, and may have shorter life span than those in 'high' category.
   - ***Low***: Trees in poor health or with significant structural defects that cannot be mitigated. Tree is expected to continue to decline, regardless of treatment. The species or individual may have characteristics that are undesirable for landscapes, and generally are unsuited for use areas.

Description of Trees

Twenty-three (23) trees representing six species were evaluated (Table 1). Coast redwoods and valley oaks are native to the Alameda County area, trees of these two species, however, are unlikely indigenous to the site. The remaining five trees were ornamental species. All of the trees were located on the eastern half of the property with the majority located along the edge of Washington Avenue. Overall, 16 trees (70%) were in good condition, four (17%) were in fair condition, and three (13%) were in poor condition (Table 1). Descriptions of each tree are found in the ***Tree Assessment Form***, and approximate locations are plotted on the ***Tree Assessment Map*** (see Exhibits).

Table 1. Condition ratings and frequency of occurrence of trees.
14143-14273 Washington Avenue, San Leandro, CA

Common Name	Scientific Name	Condition			Total
		Poor (1-2)	Fair (3)	Good (4-5)	
Norfolk island pine	*Araucaria heterophylla*	-	-	2	**2**
Loquat	*Eriobotrya japonica*	1	-	-	**1**
Ginkgo	*Ginkgo biloba*	-	1	-	**1**
Victorian box	*Pittosporum undulatum*	1	-	-	**1**
Valley oak	*Quercus lobata*	1	1	-	**2**
Coast redwood	*Sequoia sempervirens*	-	2	14	**16**
Total		**3**	**4**	**16**	**23**

Among the 16 coast redwoods, 14 were in good condition, trees #111 and #120 were fair, and none were in poor condition. Trees ranged in development from young to mature with trunk diameters from 9 to 45 inches (Photo 1).

Photo 1 (right): Looking southeast along Washington Avenue at trees #101-104 (back to front). Trees #101 and 102 were close to average size for coast redwoods at the site, while #103 and 104 were two of the smallest.

The remaining species were represented by two or fewer individuals:

- Female ginkgo #118 was growing along the south edge of the driveway for 14143 Washington Avenue. Fruit covered the driveway below its canopy. It was semi-mature in development and 14 inches in trunk diameter. The ginkgo was in fair condition with multiple attachments throughout the canopy.

- Loquat #119 was growing adjacent to the north of the building at 14173. It was semi-mature in development with two stems (7 and 4 inches in diameter). It was in poor condition.

- Norfolk Island pines #113 and #122 were growing along Washington Avenue on the northern half of the property. Both trees were mature in development with trunk diameters of 23 and 26 inches respectively. Both trees were in good condition and had been pruned for utilities (Photo 2).

Photo 2: Norfolk Island pine #113 was growing along Washington Avenue with a vigorous crown.

- Valley oaks #114 and #123 were located on the north half of the property. Both trees were semi-mature in development and had trunk diameters of 8 and 13 inches respectively. Tree #114 was in poor condition while #123 was fair. Both trees had multiple attachments along their trunks.

- Victorian box #121 was located at the northern corner of the property. It was mature in development with multiple stems. It was almost dead with very poor structure.

San Leandro's Municipal Code only protects *Street Trees* growing within the public right-of-way. Although the extent of the ROW was not marked in the field, no trees appeared to be *Street Trees*. It appears that none of the trees included in this assessment require a permit to be removed.

Suitability for Preservation

Before evaluating the impacts that will occur during development, it is important to consider the quality of the tree resource itself, and the potential for individual trees to function well over an extended length of time. Trees that are preserved on development sites must be carefully selected to make sure that they may survive development impacts, adapt to a new environment and perform well in the landscape.

Our goal is to identify trees that have the potential for long-term health, structural stability and longevity. For trees growing in open fields, away from areas where people and property are present, structural defects and/or poor health present a low risk of damage or injury if they fail. However, we must be concerned about safety in use areas. Therefore, where development encroaches into existing plantings, we must consider their structural stability as well as their potential to grow and thrive in a new environment. Where development will not occur, the normal life cycles of decline, structural failure and death should be allowed to continue.
Evaluation of suitability for preservation considers several factors:

- **Tree health**
  Healthy, vigorous trees are better able to tolerate impacts such as root injury, demolition of existing structures, changes in soil grade and moisture, and soil compaction than are non-vigorous trees. For example, valley oak #114 was in poor condition and should be removed regardless of construction impact.

- **Structural integrity**
  Trees with significant amounts of wood decay and other structural defects that cannot be corrected are likely to fail. Such trees should not be preserved in areas where damage to people or property is likely. For example, Victorian box #121 had a decayed trunk and multiple attachments.

- **Species response**
  There is a wide variation in the response of individual species to construction impacts and changes in the environment. For instance, loquats and ginkgoes have good tolerance to root pruning under more general conditions while coast redwoods are more tolerant of root pruning when soil is adequately moist.

- **Tree age and longevity**
  Mature trees, while having significant emotional and aesthetic appeal, have limited physiological capacity to adjust to an altered environment. Young trees are better able to generate new tissue and respond to change. The coast redwoods were generally young and are expected to have a high degree of adaptability to site changes. Meanwhile, Victorian box #121 is overly mature and expected to decline or die with any adjacent construction activity.

- **Species invasiveness**
  Species that spread across a site and displace desired vegetation are not always appropriate for retention. This is particularly true when indigenous species are displaced. The California Invasive Plant Inventory Database http://www.cal-ipc.org/plants/inventory/ lists species identified as being invasive. San Leandro is part of the Central West Floristic Province. No invasive trees were growing on the site.

Each tree was rated for suitability for preservation based upon its age, health, structural condition and ability to safely coexist within a development environment (see ***Tree Assessment*** in Exhibits and Table 2). We consider trees with "high" suitability for preservation to be the best candidates for preservation. We do not recommend retention of trees with "low" suitability for preservation in areas where people or property will be present. Retention of trees with "moderate" suitability for preservation depends upon the intensity of proposed site changes.

Table 2. Tree suitability for preservation
14143-14273 Washington Avenue, San Leandro, CA

High	These are trees with good health and structural stability that have the potential for longevity at the site. Sixteen (16) trees, including 14 coast redwoods and both Norfolk Island pines, had "high" suitability for preservation.
Moderate	Trees in this category have fair health and/or structural defects that may be abated with treatment. These trees require more intense management and monitoring, and may have shorter life-spans than those in the "high" category. Coast redwoods #111 and #120, ginkgo #118, and valley oak #123 had "moderate" suitability for preservation.
Low	Trees in this category are in poor health or have significant defects in structure that cannot be abated with treatment. These trees can be expected to decline regardless of management. The species or individual tree may possess either characteristics that are undesirable in landscape settings or be unsuited for use areas. Valley oak #114, loquat #119, and Victorian box #121 had "low" suitability for preservation.

Preliminary Evaluations of Impacts and Recommendations

Appropriate tree retention develops a practical match between the location and intensity of construction activities with the quality and health of trees. The ***Tree Assessment*** was the reference point for tree condition and quality. Impacts from construction were estimated given the project information available to date. I referred to the Preliminary Site Improvement Plans Washington Avenue by Kier + Wright (dated April 2022) to evaluate impacts.

All plans were preliminary. As such, the assessment of impacts to trees is preliminary. The development proposes to demolish an existing set of commercial buildings and construct a new building with parking spaces and associated sidewalks and landscaping. Development will encompass the entire site, limiting opportunity for preservation of on-site trees.

Based on the proposed plan, I recommend preservation of 8 trees and removal of 15 (Table 3, page 7). The 9 trees recommended for preservation had high suitability for preservation. The trees recommended for preservation include coast redwoods #101 – 105 and 108, and Norfolk Island pine #113 which are expected to have tolerable levels of construction and relandscaping within their driplines. Coast redwood #109 is within an area to be relandscaped. Foundation construction appears to be within 7’ of the trunk. Tree #109 will not tolerate root severances within 6’ of the trunk. If roots will be severed within 6’ of the trunk of tree #109, the tree will be removed.

Retention of these trees is predicated on strict adherence to the ***Preliminary Tree Preservation Guidelines***. For the coast redwoods, some amount of canopy and root pruning may be required. Although the driplines of these trees are within the proposed construction area, coast redwoods are tolerant of root pruning and can be retained even with activity in the root zone. Additionally, these trees provide significant benefits to the site in their current location. They provide good screening of surrounding infrastructure and property boundaries as well as shading of adjacent asphalt.

The 15 trees which are to be removed are either within the proposed building footprint, the proposed parking and driveway construction, or the bioretention beds and associated drainage. This includes eight coast redwoods, valley oaks #114 and #123, ginkgo #118, loquat #119, and Victorian box #121. Six coast redwoods had a high suitability for preservation while the remaining trees had low to moderate suitability.

Table 3. Tree disposition.
14143 – 14273 Washington Avenue. San Leandro, CA

Tree No.	Species	Trunk Diameter (in.)	Condition 1=poor 5=excellent	Suitability for Preservation	Disposition	Comments
101	Coast redwood	21	5	High	Preserve	W/in relandscaped area; 11' to building
102	Coast redwood	16	5	High	Preserve	W/in relandscaped area; 10' to building
103	Coast redwood	11	5	High	Preserve	W/in relandscaped area; 9' to building
104	Coast redwood	9	5	High	Preserve	W/in relandscaped area; 8' to building
105	Coast redwood	15	4	High	Preserve	W/in relandscaped area; 10' to building
106	Coast redwood	19	4	High	Remove	W/in relandscaped area; 3' to trenching
107	Coast redwood	20	5	High	Remove	W/in bioretention bed
108	Coast redwood	21	5	High	Preserve	W/in relandscaped area; 11' to building
109	Coast redwood	25	5	High	Preserve	W/in relandscaped area; 7' to building; do not root prune <6’
110	Coast redwood	15	4	High	Remove	W/in 4' of building exit
111	Coast redwood	13	3	Moderate	Remove	W/in building footprint
112	Coast redwood	17	4	High	Remove	W/in bioretention bed
113	Norfolk island pine	23	4	High	Preserve	W/in relandscaped area
114	Valley oak	8	1	Low	Remove	W/in building footprint
115	Coast redwood	11	5	High	Remove	W/in building footprint
116	Coast redwood	11	5	High	Remove	W/in building footprint
117	Coast redwood	11	5	High	Remove	W/in building footprint
118	Ginkgo	14	3	Moderate	Remove	W/in building footprint
119	Loquat	7,4	2	Low	Remove	W/in building footprint
120	Coast redwood	45	3	Moderate	Remove	W/in parking area
121	Victorian box	18,12,12, 12,8	1	Low	Remove	W/in parking area
122	Norfolk island pine	26	4	High	Remove	2' to driveway
123	Valley oak	13	3	Moderate	Remove	W/in building footprint

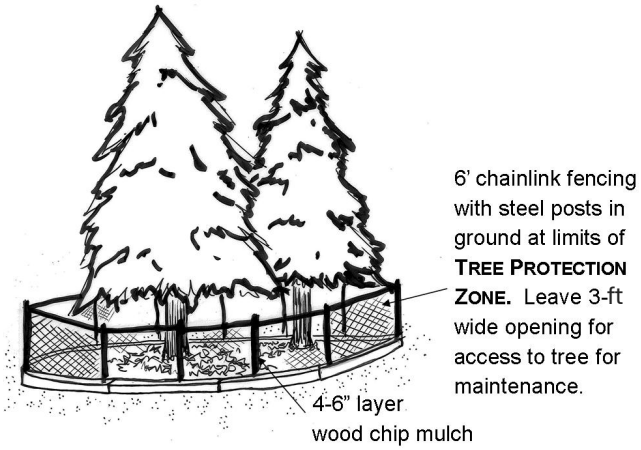
Preliminary Tree Preservation Guidelines

The following recommendations will help reduce impacts to trees from development as well as maintain and improve their health and vitality through the clearing, grading and construction phases. The key elements of a tree preservation plan for the Washington Avenue site would include:

- Retaining select trees with high or moderate suitability for preservation and apparently tolerable conflicts with construction impacts.
- Establishing **Tree Protection Zones** for each tree to be preserved. **Tree Protection Zones** are identified by the Consulting Arborist based on species tolerances, tree condition, trunk diameters and the nature and proximity of the proposed disturbance.
- Providing supplemental irrigation prior to and during the demolition and construction phases.

Design recommendations

1. All plans affecting trees shall be reviewed by the Consulting Arborist with regard to tree impacts. These include, but are not limited to, demolition plans, grading and utility plans, landscape and irrigation plans.
2. For trees identified for preservation, designate a **Tree Protection Zone** in which no construction, grading and underground services including utilities, sub-drains, water or sewer will be located (Figure 1, next page). For design purposes, the **Tree Protection Zone** should be either the dripline or edge of proposed construction. The **TPZ** will be determined once final plans have been reviewed. Depending on the tree to be preserved, additional space beyond the dripline may be required.
3. No grading, excavation, construction or storage of materials shall occur within the **Tree Protection Zone**.
4. No underground services including utilities, sub-drains, water or sewer shall be placed in the **Tree Protection Zone**.
5. Irrigation systems must be designed so that no trenching will occur within the **Tree Protection Zone**.



Detail A: Redwood Tree Protection Fencing

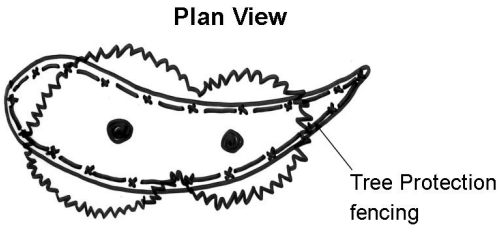


Figure 1: An example of a **Tree Protection Zone** which encroaches slightly on the dripline of the trees but designates the edge of proposed construction.

6. As trees withdraw water from the soil, expansive soils may shrink within the root area. Therefore, foundations, footings and pavements on expansive soils near trees should be designed to withstand differential displacement.

7. Consider having a temporary irrigation system installed (using soaker hoses or PVC pipes laid on the ground and covered with mulch) as soon as possible to supply the trees with water and help them recover and prepare them for impacts associated with the demolition and construction process.

Pre-construction treatments and recommendations

1. The demolition contractor shall meet with the Consulting Arborist before beginning work to discuss work procedures and tree protection.

2. Where possible, cap and abandon all existing underground utilities within the **TPZ** in place. Removal of utility boxes by hand is acceptable but no trenching should be performed within the **TPZ** in an effort to remove utilities, irrigation lines, etc.

3. Fence all trees to be retained to completely enclose the **Tree Protection Zone** prior to demolition, grubbing or grading. Fences shall be 6 ft. chain link or equivalent as approved by the Consulting Arborist. Fences are to remain until all grading and construction is completed.

4. Prune trees to be preserved to clean the crown of dead branches 1 inch and larger in diameter and raise canopies as needed for construction activities. All pruning shall be done by a State of California Licensed Tree Contractor (C61/D49). All pruning shall be done by Certified Arborist or Certified Tree Worker in accordance with the Best Management Practices for Pruning (International Society of Arboriculture, 2002) and adhere to the most recent editions of the American National Standard for Tree Care Operations (Z133.1) and Pruning (A300). The Consulting Arborist will provide pruning specifications prior to site demolition. Branches extending into the work area that can remain following demolition shall be tied back and protected from damage.

5. All tree work shall comply with the Migratory Bird Treaty Act as well as California Fish and Wildlife code 3503-3513 to not disturb nesting birds. Tree pruning and removal should be scheduled outside of the breeding season to avoid scheduling delays. Breeding bird surveys should be conducted prior to tree work. Qualified biologists should be involved in establishing work buffers for active nests.

6. Tree(s) to be removed that have branches extending into the canopy of tree(s) to remain must be removed by a qualified arborist and not by construction contractors. The qualified arborist shall remove the tree in a manner that causes no damage to the tree(s) and understory to remain. Tree stumps shall be ground 12 inches below ground surface.

7. Trees to be removed, specifically trees #110 and 111, shall be felled so as to fall away from **Tree Protection Zone** and avoid pulling and breaking of roots of trees to remain. If roots are entwined, the consultant may require first severing the major woody root mass before extracting the trees, or grinding the stump below ground.

8. Apply and maintain 4-6 inches of wood chip mulch within the **Tree Protection Zone.**

Recommendations for tree protection during construction

1. Prior to beginning work, the contractors working in the vicinity of trees to be preserved are required to meet with the Consulting Arborist at the site to review all work procedures, access routes, storage areas and tree protection measures.

2. All contractors shall conduct operations in a manner that will prevent damage to trees to be preserved.

3. Any grading, construction, demolition or other work that is expected to encounter tree roots should be monitored by the Consulting Arborist.

4. Tree protection fences are to remain until all site work has been completed. Fences may not be relocated or removed without permission of the Consulting Arborist.

5. Construction trailers, traffic and storage areas must remain outside fenced areas at all times.

6. Prior to grading, pad preparation, excavation for foundations/footings/walls, trenching, trees may require root pruning outside the **Tree Protection Zone** by cutting all roots cleanly to the depth of the excavation. Roots shall be cut by manually digging a trench and cutting exposed roots with a saw, with a vibrating knife, rock saw, narrow trencher with sharp blades, or other approved root pruning equipment. The Consulting Arborist will identify where root pruning is required and monitor all root pruning activities.

7. If injury should occur to any tree during construction, it should be evaluated as soon as possible by the Consulting Arborist so that appropriate treatments can be applied.

8. No excess soil, chemicals, debris, equipment or other materials shall be dumped or stored within the **Tree Protection Zone**.

9. Any additional tree pruning needed for clearance during construction must be performed by a Certified Arborist and not by construction personnel.

10. All trees shall be irrigated on a schedule to be determined by the Consulting Arborist (every 3 to 6 weeks April through October is typical). Each irrigation shall wet the soil within the **Tree Protection Zone** to a depth of 24 inches.

Maintenance of impacted trees
Our procedures included assessing trees for observable defects in structure. This is not to say that trees without significant defects will not fail. Failure of apparently defect-free trees does occur, especially during storm events. Wind forces, for example, can exceed the strength of defect-free wood causing branches and trunks to break. Wind forces coupled with rain can saturate soils, reducing their ability to hold roots, and blow over defect-free trees. Although we cannot predict all failures, identifying those trees with observable defects is a critical component of enhancing public safety.

Furthermore, trees change over time. Our inspections represent the condition of the tree at the time of inspection. As trees age, the likelihood of failure of branches or entire trees increases. Annual tree inspections are recommended to identify changes to tree health and structure. In addition, trees should be inspected after storms of unusual severity to evaluate damage and structural changes. Initiating these inspections is the responsibility of the client and/or tree owner.

Preserved trees will experience a physical environment different from that of pre-development. As a result, tree health and structural stability should be monitored. Occasional pruning, fertilization, mulch, pest management, replanting and irrigation may be required. In addition, provisions for monitoring both tree health and structural stability following construction must be made a priority.

If you have any questions about my observations or recommendations, please contact me.

HortScience | Bartlett Consulting

Allegra Mautner, Consulting Arborist & Urban Forester
ISA Certified Arborist No. WE-10369A
American Society of Consulting Arborists, Member

Exhibits

Tree Assessment Map

Tree Assessment Form

Tree Assessment Map

14143 Washington Avenue
San Leandro, CA

Prepared for:
First Industrial Realty Trust, Inc.
Lafayette, CA

January 2022

No Scale

Notes:
Base map provided by:
Kier & Wright
Livermore, CA

Numbered tree locations are approximate.

HORT SCIENCE
BARTLETT CONSULTING
Divisions of The F.A. Bartlett Tree Expert Company

325 Ray Street
Pleasanton, California 94566
Phone 925.484.0211
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Tree Assessment

First Industrial Realty Trust, Inc.
San Leandro, CA
February 2022

HORT SCIENCE
BARTLETT CONSULTING
Divisions of The F.A. Bartlett Tree Expert Company

Tree No.	Species	Trunk Diameter (in.)	Protected Tree?	Condition 1=poor 5=excellent	Suitability for Preservation	Comments
101	Coast redwood	21	No	5	High	In shrub planting bed; 6' from fence; typical form and structure; slightly drought-stressed; vigorous.
102	Coast redwood	16	No	5	High	In shrub planting bed; 4' from fence; typical form and structure; slightly drought-stressed; vigorous.
103	Coast redwood	11	No	5	High	In shrub planting bed; 4' from fence; typical form and structure; vigorous; good young tree.
104	Coast redwood	9	No	5	High	In shrub planting bed; 4' from fence; typical form and structure; vigorous; good young tree.
105	Coast redwood	15	No	4	High	In shrub planting bed; 4' from fence; typical form and structure; large surface root; crowded.
106	Coast redwood	19	No	4	High	In shrub planting bed; 6-8' from fence; typical form and structure; crowded.
107	Coast redwood	20	No	5	High	In shrub planting bed; 2' from fence; typical form and structure; crowded.
108	Coast redwood	21	No	5	High	In shrub planting bed; 4' from fence; typical form and structure; crowded.
109	Coast redwood	25	No	5	High	In shrub planting bed; 2' from fence; typical form and structure; crowded.
110	Coast redwood	15	No	4	High	In corner shrub planting bed; 4' from curb; typical form and structure; crowded.
111	Coast redwood	13	No	3	Moderate	In corner shrub planting bed; 2' from curb; very crowded; 1-sided to W.
112	Coast redwood	17	No	4	High	In corner shrub planting bed; slightly sparse crown.

Tree Assessment

First Industrial Realty Trust, Inc.
San Leandro, CA
February 2022

HORT SCIENCE
BARTLETT CONSULTING
Divisions of The F.A. Bartlett Tree Expert Company

Tree No.	Species	Trunk Diameter (in.)	Protected Tree?	Condition 1=poor 5=excellent	Suitability for Preservation	Comments
113	Norfolk island pine	23	No	4	High	Pruned at street for utilities; raised crown; slightly sparse.
114	Valley oak	8	No	1	Low	Measured below attachments at 2'; extensive branch dieback; history of limb removal.
115	Coast redwood	11	No	5	High	In lawn ~3' from fence; typical form and structure; crowded; good young tree.
116	Coast redwood	11	No	5	High	In lawn ~3' from fence; typical form and structure; crowded; good young tree.
117	Coast redwood	11	No	5	High	In lawn ~3' from fence; typical form and structure; crowded; good young tree.
118	Ginkgo	14	No	3	Moderate	Female; Codominant stems at 5' w/ fused stems; multiple attachments at 6 and 8'; tangled branch structure.
119	Loquat	7,4	No	2	Low	Growing in pavers at fence; codominant stems arise from base; crowded.
120	Coast redwood	45	No	3	Moderate	Pendulous branches; slightly drought-stressed; pallet stacked w/ concrete S. side.
121	Victorian box	18,12,12,12,8	No	1	Low	Multiple attachments at 2'; spreading vase form; decayed trunk and stems; all but dead.
122	Norfolk island pine	26	No	4	High	1' from curb wall; utility pruned on E. side; vigorous.
123	Valley oak	13	No	3	Moderate	In raised soil area at fence; multiple attachments at 12'; correcting lean N. slightly sinuous form.

Appendix E

Phase I Cultural Resources Assessment

FIRSTCARBONSOLUTIONS™

Phase I Cultural Resources Assessment
San Leandro Washington Avenue Warehouse Project
Alameda County, California

San Leandro, California USGS 7.5-minute Topographic Quadrangle Map
Assessor's Parcel Number (APN) 77B-1222-3-3, 77B-1222-4-3, 77B-1222-5-3, 77B-1222-6-15, 77B-1222-6-17, 77B-1222-6-18, 77B-1222-6-19

Project Applicant:
First Industrial Realty Trust, Inc.
3620 Happy Valley Road, Suite 201
Lafayette, CA 94569

Contact: Richard Poolis, Director of Development

Prepared by:
FirstCarbon Solutions
1350 Treat Boulevard, Suite 380
Walnut Creek, CA 94597
925.357.2562

Report Authored by: Ti Ngo, MA
Fieldwork Conducted by: Dana DePietro, PhD, RPA, and Ti Ngo, MA

Report Date: July 29, 2022
Revised Date: January 17, 2023

THIS REPORT HAS BEEN REDACTED TO PROTECT THE LOCATIONS OF SENSITIVE ARCHAEOLOGICAL AND TRIBAL CULTURAL RESOURCES PURSUANT TO PUB. RESOURCES CODE, § 21082.3(C)(2).

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MANAGEMENT SUMMARY

At the request of First Industrial Realty Trust, Inc., FirstCarbon Solutions (FCS) conducted a Phase I Cultural Resources Assessment for the proposed San Leandro Washington Avenue Warehouse Project (proposed project) located in San Leandro, California, in Alameda County. The purpose of this assessment is to identify the presence or absence of potentially significant cultural resources within the project site, and if present, propose recommendations for mitigation. Completion of this investigation fulfills the requirements associated with the California Environmental Quality Act (CEQA) Guidelines. This report follows the California Office of Historic Preservation (OHP) procedures for cultural resource surveys and the OHP Archaeological Resource Management Report (ARMR) format for archaeological reports.

On May 4, 2022, a records search was conducted at the Northwest Information Center (NWIC) located at Sonoma State University located in Rohnert Park, California, for the project site and a 0.5-mile radius beyond the project boundaries. The current inventories of the National Register of Historic Places (NRHP), the California Register of Historical Resources (CRHR), the California Historical Landmarks (CHL) list, the California Points of Historical Interest (CPHI) list, and the California Built Environment Resource Directory (BERD) for Alameda County were also reviewed to determine the existence of previously documented local historical resources. The results of the records search indicate that one historical resource has been recorded within the 0.5-mile search radius, which is not located within the project site boundaries. Fourteen survey reports are on file within the 0.5-mile radius of the project site, none of which address the proposed project site, indicating that it has not been previously surveyed for cultural resources.

On April 27, 2022, FCS sent a request to the Native American Heritage Commission (NAHC) in an effort to determine whether any sacred sites are listed on its Sacred Lands File for the project site. A response was received on May 29, 2022, indicating that the Sacred Lands File search produced a negative result for Native American cultural resources in the project area. The NAHC included a list of 11 tribal representatives available for consultation. To ensure that all Native American knowledge and concerns over potential Tribal Cultural Resources (TCRs) that may be affected by implementation of the proposed project are addressed, FCS sent letters to all 11 tribal representatives on June 7, 2022. A response was received by the Confederated Villages of Lisjan Nation on June 25, 2022, indicating that the tribe has no further information or comment regarding the proposed project. No additional responses have been received to date.

On May 13, 2022, FCS Senior Archaeologist Dr. Dana DePietro and FCS Archaeologist and Historian, Ti Ngo, surveyed the project site to identify any unrecorded cultural resources within the project boundary. The survey began in the northwest corner of the project site and moved south and east, using north–south transects spaced at 15-meter intervals whenever possible. The site was completely hardscaped with associated imported soil for landscaping elements. As a result, visibility of native soils was extremely poor, ranging between 1 to 5 percent. All areas of the project site were closely inspected for culturally modified soils or other indicators of potential historic or prehistoric resources. Native soils were visible in the northeastern portion of the project site. Visible soils were

largely composed of medium brown (7.5 YR 4/3) sandy clay, interspersed with small granite stones ranging between 1 to 3 centimeters.

Dr. DePietro and Mr. Ngo initially encountered six structures that appeared to be over 45 years in age and had not previously been evaluated for their historical significance or potential for inclusion in the CRHR or NRHP. An earlier version of this report called out the need to have the structures evaluated for full CEQA compliance, however all six were subsequently damaged by fire and demolished before the recommended evaluations could be completed. Dr. DePietro conducted an updated pedestrian survey on January 18, 2022, and confirmed that all six buildings are no longer present at the site. As such, the properties are determined ineligible for inclusion in the CRHR or NRHP as they are no longer able to convey any historic integrity. No additional prehistoric or historic resources or raw materials commonly used in the manufacture of tools (e.g., obsidian, Franciscan chert, etc.) were found within the project site.

Based on the results of the records searches, archival research, and pedestrian survey, FCS considers the probability of the project to have an adverse impact on historic or archaeological resources to be moderate. There are no recorded cultural resources within project site, however the foundations of six historic era-buildings increase the probability that subsurface archaeological resources may be encountered during project construction.

FCS therefore recommends that an archaeologist who meets the Secretary of the Interior's Professional Qualification Standards for archaeology inspect the project site following the removal of all rubble, asphalt, and ground cover, and prior to any grading or trenching into previously undisturbed soils. This may be followed by regular periodic or "spot-check" archaeological monitoring as determined by the Archaeologist, but full-time construction monitoring is not warranted at this time. Additional procedures for the inadvertent discovery of human remains and cultural resources are provided below.

SECTION 1: INTRODUCTION

1.1 - Project Location

The 3.45-acre project site is located in the City of San Leandro, in Alameda County, California. The project site is bounded by Washington Avenue to the east, 139th Avenue to the north, and railroad tracks to the south and west. As part of the project, the existing three buildings at the site would be demolished and the existing debris would be removed from the site

1.2 - Project Description

The project scope will include combining six parcels into one lot with a total area of 3.45 acres. The project applicant, First Industrial Realty Trust, Inc., proposes to develop a 52,269-square-foot building which includes 5,000 square feet of office uses and 47,269 square feet of warehouse use on the proposed project site. The proposed project would include 64 automobile parking stalls, five truck parking stalls, as well as 15 dock-high doors and two drive-in doors in the rear of the building. The site shall be fully landscaped and irrigated. The site will accommodate the required automobile and bike parking, trash enclosure, and off-street loading spaces in the truck court, which will be located on the south side of the property and secured with a fence and gate to allow for truck ingress/egress. The building shall be constructed with concrete tilt walls and a hybrid roof deck for a Type III-B construction and fully sprinklered. Access to the project consists of a proposed curb-cut at the northwest corner of the site to allow for automobile and fire truck ingress/egress, while truck access is located on the northeast corner of the property.

1.3 - Assessment Team

FCS Archaeologist and Historian, Ti Ngo, MA, authored this report. FCS Senior Archaeologist, Dr. Dana DePietro, RPA, and Mr. Ngo conducted the pedestrian survey. Professional qualifications for Dr. DePietro and Mr. Ngo can be found in Appendix A.

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SECTION 2: CULTURAL SETTING

The following is a brief overview of the prehistoric and historic background of the general area, which provides context to understand the relevance of resources found in the general project area. This section is not intended to be a comprehensive review of the current resources available; rather, it serves as a general overview.

Further details of the Bay Area can be found in the ethnographic studies, mission records, and major published sources, including Beardsley (1948), Bennyhoff (1950), Fredrickson (1973), Kroeber (1925), Moratto (1984), Chartkoff and Chartkoff (1984), Heizer (ed. 1978), and Jones and Klar (2007).

2.1 - Prehistoric and Ethnographic Background

In general, archaeological research in the greater San Francisco Bay Area has focused on coastal areas, where large shellmounds were relatively easily identified on the landscape. This research and its chronological framework, however, is relevant to and has a bearing on our understanding of prehistory in areas adjacent to the San Francisco Bay, including modern Santa Clara County.

The San Francisco Bay Area supported a dense population of hunter-gatherers over thousands of years, leaving a rich a varied archaeological record. The Bay Area was a place of incredible language diversity, with seven languages spoken at the time of Spanish settlement in 1776. The diverse ecosystem of the San Francisco Bay and surrounding lands supported an average of three to five persons per square mile but reached 11 persons per square mile in the North Bay. At the time of Spanish contact, the people of the Bay Area were organized into local tribelets that defended fixed territories under independent leaders. Typically, individual Bay Area tribelets included 200 to 400 people distributed among three to five semi-permanent villages, within territories measuring approximately 10 to 12 miles in diameter (Milliken et.al. 2007).

Native American occupation and use of the greater Bay Area including the regions comprising Concord and Oakley, extends over 5000-7000 years and may be longer. Early archaeological investigations in Central California were conducted at sites located in the Sacramento-San Joaquin Delta region. The first published account documents investigations in the Lodi and Stockton area. The initial archaeological reports typically contained descriptive narratives with more systematic approaches sponsored by Sacramento Junior College in the 1930s. At the same time, University of California at Berkeley excavated several sites in the lower Sacramento Valley and Delta region, which resulted in recognizing archaeological site patterns based on a variation of intersite assemblages. Research during the 1930s identified temporal periods in Central California prehistory and provided an initial chronological sequence. In 1939, researcher Jeremiah Lillard of Sacramento Junior College noted that each cultural period led directly to the next and that influences spread from the Delta region to their regions in Central California (Lillard and Purves 1936). In the late 1940s and early 1950s, researcher Richard Beardsley of the University of California Berkeley documented similarities in artifacts among sites in the San Francisco Bay region and the Delta and refined his findings into a

cultural model that ultimately became known as the Central California Taxonomic System (CCTS). This system proposed a uniform, linear sequence of cultural succession (Beardsley 1948).

To address some of the flaws in the CCTS system, D.A. Fredrickson (1973) introduced a revision that incorporated a system of spatial and cultural integrative units. Fredrickson separated cultural, temporal, and spatial units from each other and assigned them to six chronological periods: Paleo-Indian (12,000 to 8000 years Before Present [BP]; Lower, Middle, and Upper Archaic [8000 to 1500 BP], and Emergent [Upper and Lower, 1500 to 250 BP]). The suggested temporal ranges are similar to earlier horizons, which are broad cultural units that can be arranged in a temporal sequence. In addition, Fredrickson defined several patterns—a general way of life shared within a specific geographical region. These patterns include:

- Windmiller Pattern or Early Horizon (4500 to 3500 BP)
- Berkeley Pattern or Middle Horizon (3500 to 1500 BP)
- Augustine Pattern or Late Horizon (1500 to 250 BP)

Brief descriptions of these temporal ranges and their unique characteristics follow.

2.1.1 - Windmiller Pattern or Early Horizon (4500 to 3500 BP)

Characterized by the Windmiller Pattern, the Early Horizon was centered in the Cosumnes District of the Delta and emphasized hunting rather than gathering, as evidenced by the abundance of projectile points in relation to plant processing tools. Additionally, atlatl, dart, and spear technologies typically included stemmed projectile points of slate and chert but minimal obsidian. The large variety of projectile point types and faunal remains suggests exploitation of numerous types of terrestrial and aquatic species (Bennyhoff 1950). Burials occurred in cemeteries and intra-village graves. These burials typically were ventrally extended, although some dorsal extensions are known with a westerly orientation and a high number of grave goods. Trade networks focused on acquisition of ornamental and ceremonial objects in finished form rather than on raw material. The presence of artifacts made of exotic materials such as quartz, obsidian, and shell, indicates an extensive trade network that may represent the arrival of Utian populations into Central California. Also indicative of this period, are rectangular Haliotis and Olivella shell beads and charmstones that usually were perforated (Ragir 1972).

2.1.2 - Berkeley Pattern or Middle Horizon (3500 to 1500 BP)

The Middle Horizon is characterized by the Berkeley Pattern, which displays considerable changes from the Early Horizon. This period exhibited a strong milling technology represented by minimally shaped cobble mortars and pestles, although metates and manos were still used. Dart and atlatl technologies during this period were characterized by non-stemmed projectile points made primarily of obsidian. Fredrickson suggests that the Berkeley Pattern marked the eastward expansion of Miwok groups from the San Francisco Bay Area. Compared with the Early Horizon, there is a higher proportion of grinding implements at this time, implying an emphasis on plant resources rather than on hunting. Typical burials occurred within the village with flexed positions, variable cardinal orientation, and some cremations. As noted by Lillard, the practice of spreading ground ochre over

the burial was common at this time (Lillard et al. 1939). Grave goods during this period are generally sparse and typically include only utilitarian items and a few ornamental objects. However, objects such as charmstones, quartz crystals, and bone whistles occasionally were present, which suggest the religious or ceremonial significance of the individual (Lillard et.al. 1939). During this period, larger populations are suggested by the number and depth of sites compared with the Windmiller Pattern. According to Fredrickson (1973), the Berkeley Pattern reflects gradual expansion or assimilation of different populations rather than sudden population replacement and a gradual shift in economic emphasis.

2.1.3 - Augustine Pattern or Late Horizon (1500 to 250 BP)

The Late Horizon is characterized by the Augustine Pattern, which represents a shift in the general subsistence pattern. Changes include the introduction of bow and arrow technology; and most importantly, acorns became the predominant food resource. Trade systems expanded to include raw resources as well as finished products. There are more baked clay artifacts and extensive use of Haliotis ornaments of many elaborate shapes and forms. According to Moratto, burial patterns retained the use of flexed burials with variable orientation, but there was a reduction in the use of ochre and widespread evidence of cremation (Moratto 1984). Judging from the number and types of grave goods associated with the two types of burials, cremation seems to have been reserved for individuals of higher status, whereas other individuals were buried in flexed positions. Johnson (1976) suggests that the Augustine Pattern represents expansion of the Wintuan population from the north, which resulted in combining new traits with those established during the Berkeley Pattern.

Central California research has expanded from an emphasis on defining chronological and cultural units to a more comprehensive look at settlement and subsistence systems. This shift is illustrated by the early use of burials to identify mortuary assemblages and more recent research using osteological data to determine the health of prehistoric populations (Dickel et al. 1984). Although debate continues over a single model or sequence for California, the general framework consisting of three temporal/cultural units is generally accepted, although the identification of regional and local variation is a major goal of current archaeological research.

2.1.4 - The Ohlone

At the time of European contact in the 18th Century, the San Ramon area was occupied by the Ohlone tribe of California Native Americans. The Ohlone group designates a linguistic family consisting of eight different yet related languages. The eight Ohlone languages were quite different from one another, with each language being related to its geographically contiguous neighbors.

The arrival of Ohlone groups into the Bay Area appears to be temporally consistent with the appearance of the Late Period artifact assemblage in the archaeological record, as documented at sites such as the Emeryville Shellmound or the Ellis Landing Shellmound. It is probable that the Ohlone moved south and west from the Delta region of the San Joaquin-Sacramento River region into the Bay Area. The tribal group that most likely occupied the Master Plan area is the Chochenyo language group, whose territory extended from the southern end of the Carquinez Strait south to Mission San José (present-day Fremont), east to present-day Livermore and west to the San Francisco Bay.

The various Ohlone tribes subsisted as hunter-gatherers and relied on local terrestrial and marine flora and fauna for subsistence. The predominant plant food source was the acorn, but they also exploited a wide range of other plants, including various seeds, buckeye, berries, and roots. Protein sources included grizzly bear, elk, sea lions, antelope, and black-tailed deer as well as smaller mammals such as raccoon, brush rabbit, ground squirrels, and wood rats. Waterfowl, including Canadian geese, mallards, green-winged teal, and American widgeon, were captured in nets using decoys to attract them. Fish also played an important role in the Chochenyo diet and included steelhead, salmon, and sturgeon.

The Ohlone constructed watercraft from tule reeds and possessed bow and arrow technology. They fashioned blankets from sea otter pelts, fabricated basketry from twined reeds of various types, and assembled a variety of stone and bone tools in their assemblages. Ohlone villages typically consisted of domed dwelling structures, communal sweathouses, dance enclosures, and assembly houses constructed from thatched tule reeds and a combination of wild grasses, wild alfalfa, and ferns.

The Ohlone were politically organized into autonomous tribelets that had distinct cultural territories. Individual tribelets contained one or more villages with a number of seasonal camps for resource procurement within the tribelet territory. The tribelet chief could be either male or female, and the position was inherited patrilineally, but approval of the community was required. The tribelet chief and council were essentially advisors to the community and were responsible for feeding visitors, directing hunting and fishing expeditions, ceremonial activities, and warfare on neighboring tribelets.

The first European contact with the Ohlone was probably in 1602, when Sebastian Vizcaíno's expedition moored in Monterey. The estimated Ohlone population in 1770—when the first mission was established in Ohlone territory—was approximately 10,000. By 1832, the population had declined to fewer than 2,000, mainly due to diseases introduced by the European explorers and settlers. When the Spanish mission system rapidly expanded across California, the Ohlone traditional way of life was irreversibly altered. The pre-contact hunter-gatherer subsistence economy was replaced by an agricultural economy, and the Spanish missionaries prohibited traditional social activities. After secularization of the missions between 1834 and 1836, some Native Americans returned to traditional religious and subsistence practices while others labored on Mexican ranchos. Thus, multi-ethnic Indian communities grew up in and around the area and provided informant testimony to ethnologists from 1878 to 1933 (Hart 1987).

The California Gold Rush brought further disease to the native inhabitants, and by the 1850s, nearly all of the Ohlone had adapted in some way or another to economies based on cash income. Hunting and gathering activities continued to decline and were rapidly replaced with economies based on ranching and farming.

2.2 - Regional Historic Background

2.2.1 - Spanish and Mexican Exploration and Settlement

The first European to enter the area was Captain José Francisco de Ortega, who was a scout for the Portola Expedition; however, it was not officially explored until the De Anza Expedition, where Father Junípero Serra consecrated the Mission Santa Clara de Asís. Named after Italian Saint Santa Chiara di Assisi. Mission Santa Clara de Asís, the mission was founded on January 12, 1777, was the 8th mission in the chain of 21 Franciscan missions established by Padre Junípero Serra (Mission Santa Clara de Asís 2020; Hall 1871). The mission would eventually be moved or rebuilt five times due to architectural faults or natural disasters. The final location is adjacent to the where current chapel now stands.

The pueblo of San José de Guadalupe was established on November 29, 1777, in an effort by the Spanish government to provide a permanent and secure settlement to the religious and military personal that were passing through the area; it was the first town to be established in California. On June 11, 1797, Mission San José was consecrated, making it the 14th of the 21 Franciscan Missions. Santa Clara Valley grew and expanded rapidly chiefly due to fertile land surrounding Mission San José, excellent water supply, large numbers of Native American laborers, and its proximity to San Francisco Bay. However, Spanish mission records indicate that local Native American inhabitants were being taken to Mission San José until secularization of the missions in 1833. Many Native Americans were not willing converts, and there are numerous accounts of neophytes fleeing the missions and a series of "Indian Wars" broke out when the Spanish tried to return them to the missions. During this period, Native American populations were declining rapidly from an influx of Euro-American diseases. In 1832, a party of trappers from the Hudson's Bay Company, led by John Work, traveled down the Sacramento River unintentionally spreading a malaria epidemic to Native Californians.

2.2.2 - The Mexican Period (1821-1848)

With the declaration of Mexican independence in 1821, Spanish control of Alta California ended, although little change actually occurred. Political change did not take place until mission secularization in 1834, when Native Americans were released from missionary control and the mission lands were granted to private individuals. Shoup and Milliken (1999) state that mission secularization removed the social protection and support on which Native Americans had come to rely. It exposed them to further exploitation by outside interests, often forcing them into a marginal existence as laborers for large ranchos. Following mission secularization, the Mexican population grew as the native population continued to decline. Anglo-American settlers began to arrive in Alta California during this period and often married into Mexican families, becoming Mexican citizens, which made them eligible to receive land grants. In 1846, on the eve of the U.S.-Mexican War (1846 to 1848), the estimated population of Alta California was 8,000 non-natives and 10,000 natives. However, these estimates have been debated. Cook (1976) suggests the Native American population was 100,000 in 1850; the U.S. Census of 1880 reports the Native American population as 20,385 during the Gold Rush and American Expansion.

During this period, and prior, Native American populations were declining rapidly because of an influx of Euro-American diseases. In 1832, a party of trappers from the Hudson's Bay Company, led by John Work, traveled down the Sacramento River, unintentionally spreading a malaria epidemic to Native Californians. Four years later, a smallpox epidemic decimated local population, and it is estimated that up to 75 percent of the native population died (Cook 1955).

After the upheaval of the Bear Flag Revolt in 1846, and the result of the Treaty of Guadalupe Hidalgo in 1848, California became a United States territory. In 1848, James W. Marshall discovered gold at Coloma in modern-day El Dorado County, which started the Gold Rush into the region that forever altered the course of California's history. The arrival of thousands of gold seekers in the territory contributed to the exploration and settlement of the entire State. By late 1848, approximately four out of five men in California were gold miners.

The Gold Rush originated along the reaches of the American River and other tributaries to the Sacramento River, and Hangtown, present-day Placerville, became the closest town offering mining supplies and other necessities for the miners in El Dorado County. Gold subsequently was found in the tributaries to the San Joaquin River, which flowed north to join the Sacramento River in the Great Delta east of San Francisco Bay.

By 1864, California's Gold Rush had essentially ended. The rich surface and river placers were largely exhausted and the miners either returned to their homelands or stayed to start new lives in California. After the Gold Rush, people in towns such as Jackson, Placerville, and Sonora turned to other means of commerce, such as ranching, agriculture, and timber production. With the decline of gold mining, agriculture and ranching came to the forefront in the State's economy. California's natural resources and moderate climate proved well suited for cultivation of a variety of fruits, nuts, vegetables, and grains.

2.2.3 - Euro-American Expansion

In 1848, James W. Marshall discovered gold at Coloma in modern-day El Dorado County, which started the Gold Rush into the region that forever altered the course of California's history. The arrival of thousands of gold seekers in the territory contributed to the exploration and settlement of the entire State. By late 1848, approximately four out of five men in California were gold miners. The Gold Rush originated along the reaches of the American River and other tributaries to the Sacramento River, and Hangtown, present-day Placerville, became the closest town offering mining supplies and other necessities for the miners in El Dorado County. Gold subsequently was found in the tributaries to the San Joaquin River, which flowed north to join the Sacramento River in the Great Delta east of San Francisco Bay (Robinson 1948).

By 1864, the California Gold Rush had essentially ended. The rich surface and river placers were largely exhausted and the miners either returned to their homelands or stayed to start new lives in California. After the Gold Rush, people in towns such as Jackson, Placerville, and Sonora turned to other means of commerce, such as ranching, agriculture, and timber production. With the decline of gold mining, agriculture and ranching came to the forefront in the State's economy. California's

natural resources and moderate climate proved well suited for cultivation of a variety of fruits, nuts, vegetables, and grains (Beck and Hasse 1974).

2.2.4 - Alameda County

Alameda County occupies the eastern portion of the East Bay region of the San Francisco Bay Area region. The County was formed in March of 1853 from portions of Contra Costa and Santa Clara counties. Alameda County, like much of California, was seen as a land of economic opportunity, not just for its mining resources but also for its productive land where farmers could cultivate a variety of crops. Agriculture became important in the California economy in the late 1850s and through the 1860s, homesteading became a means by which people could own and operate a family farm. The decidedly agricultural focus also underpins the historical significance of the Spanish colonial and Mexican era of land grants. The variety of cultural traditions, technological developments, and ideological views further underwrite the County's agricultural history. The County's rural setting continues to support farming and ranching operations (Baker 2017).

As early as 1887, special interests advertised the County's virtues as a place to cultivate. Early settlers began to speak of beneficial soils that support a range of crops—oranges, lemons, olives, pomegranates, figs, and grapes flourished—with seasonal rainfall, and suitable climates. In addition, the welcoming character of towns, regional accessibility, and schools further encouraged westward migration (Calderwood, 2011).

A variety of crops flourished in the County because of favorable sub-climate conditions. Cultivated lands expanded with changes and advancements in the agricultural industry that encouraged farmers to adapt operations and remain relevant. More generally, stable crops such as wheat and specialty crop agriculture were an important component of California's agricultural history. Between 1880 and 1900, for example, farmers shifted from apples to such fruits as peaches, plums, prunes, apricots, and pears. The shift boosted California's orchard industries, coinciding with accelerated growth in local drying and canning industries. The development of these specialized crops gave California an economic buffer when wheat prices declined in the early 20th Century (Meritt, 1928).

Large-scale commercial operations began to capitalize on mechanical innovations just as irrigation developed in the early 1880s. Consequently, competing economic interests caused land prices to increase and make family farming a less profitable enterprise. Following the World Wars, large companies followed their employees to suburban areas east of San Francisco. The establishment of large population centers fostered the development of equally large shopping centers. To meet demand on infrastructure, the State modernized highways and roadways. With the establishment of the Bay Area Rapid Transit system, the central county cities in turn spawned their own suburbs (Nolte 2012). The once outlying rural areas of Antioch, Oakley, and Brentwood continue to grow.

2.2.5 - The City of San Leandro

The area that would become the City of San Leandro was originally a 9,000 acre land grant, Rancho San Leandro, given to José Joaquin Estudillo for his services for the Spanish army in 1842. Two of Estudillo's sons-in-law, John B. Ward and William Heath Davis, established the perimeter of the townsite that would become San Leandro, bounded by the San Leandro Creek on the north, Watkins

Street on the east, Castro Street on the south, and Alvarado Street on the west. Similar to many land grants, the Rancho of San Leandro consisted of cattle farms and small-scale agriculture in its early days (Freeman 1940).

After the Mexican-American War, San Leandro became the county seat for Alameda County in 1856 until the downtown area and courthouse were destroyed by the earthquake of 1868 along the Hayward fault. The town recovered and was officially incorporated in 1872 with a population of 426 persons. Agriculture continued to be the main economic hub of the City with cattle farms surrounded by orchards of fruit, asparagus, and vegetable farms (Viralkas 2008).

Warehouses and small-scale industry entered the area is the 1920s and 1930s. Because of the enactment of laws that forbade property owners to sell land to African Americans or other minorities, San Leandro had a 99.3 percent Caucasian demographic in 1960 in comparison to its neighbor, Oakland, which housed a large African American community. After the landmark Supreme Court Case, *Shelley vs. Kraemer* in 1948 which outlawed such practices, demographic change slowly came to San Leandro. By the 1980s, Asian Americans and other minorities had moved to the area creating a more plural and diverse community. Today, San Leandro is home to over 90,000 people with large corporations such as JanSport, The North Face, Ghirardelli Chocolates, 21st Amendment Brewery, and Coca-Cola having factories in the City (Census.gov 2022).

SECTION 3: RESULTS

3.1 - Records Search

3.1.1 - Northwest Information Center Records Search

On May 4, 2022, a records search for the project site and a 0.5-mile radius beyond the project site boundary was conducted at the NWIC located at Sonoma State University in Rohnert Park, California. The current inventories of the NRHP, the CRHR, the CHL list, the CPHI list, and the California BERD for the County of Alameda were also reviewed to determine the existence of previously documented local historical resources.

The results of the records search indicate that one historical cultural resource has been recorded within 0.5-mile search radius, which is not located within the project boundaries (Table 1). The Kraft Foods Plant and associated office buildings have been evaluated for their historical significance and found not to qualify for the CRHR or NRHP. Fourteen survey reports are on file within a 0.5-mile radius, none of which address the proposed project site, indicating the project site has not been previously surveyed for cultural resources (Table 2). No buildings on the project site were listed for inclusion in the BERD for Alameda County. A copy of the NWIC record searches can be found in Appendix B.

Table 1: Cultural Resources Within 0.5-mile Radius of the Project Site

Resource No.	Resource Description	Date Recorded
P-01-010665	Resource Name–Kraft Foods Plant; Other–General Foods Corporation Plant; OHP Property Number–154689; OHP PRN–FCC080425A; OHP PRN–FCC050527D	2004
Source: Northwest Information Center (NWIC) Records Search. May 4, 2022.		

Table 2: Previous Investigations Within a 0.5-mile Radius of the Project Site

Report No.	Report Title/Project Focus	Author	Date
S-005345	Request for Determination of Eligibility for Inclusion in the National Register of Historic Places, Stevens Ranch	No Author	1977
S-017464	San Leandro, CA and Reno, Nevada Peavine Stn. (letter report)	Stephen A. Dietz and John Holson	1987
S-017993	Cultural Resources Inventory Report for the Proposed Mojave Northward Expansion Project	Brian Hatoff, Barb Voss, Sharon Waechter, Stephen Wee, and Vance Bente	1995
S-022820	Cultural Resources Survey for the Level (3) Communications Long Haul Fiber Optics Project, Segment WS07: Oakland to San José	Wendy J. Nelson, Tammara Norton, Larry Chiea, and Eugenia Mitsanis	2000

Report No.	Report Title/Project Focus	Author	Date
S-026045	Cultural Resources Reconnaissance Survey and Inventory Report for the Metromedia Fiberoptic Cable Project, San Francisco Bay Area and Los Angeles Basin Networks	Richard Carrico, Mooney & Associates, Theodore Cooley, and William Eckhardt	2000
S-028634	Cultural Resources Analysis for Cingular Wireless Site BA-761-02 "Kraft" 100 Halcyon Drive, San Leandro, Alameda County CA (letter report)	Carolyn Losee	2004
S-030783	Collocation ("CO") Submission Packet, FCC Form 621, 100 Halcyon Drive, San Leandro, Alameda County	Carolyn Losee	2005
S-033061	Cultural Resources Final Report of Monitoring and Findings for the Qwest Network Construction Project, State of California	Nancy Sikes, Cindy Arrington, Bryon Bass, Chris Corey, Kevin Hunt, Steve O'Neil, Catherine Pruett, Tony Sawyer, Michael Tuma, Leslie Wagner, and Alex Wesson	2006
S-033504	Historic Property Survey Report, Seismic Retrofit of BART Aerial Structures and Stations Along Concord, Richmond, Daly City and Fremont Lines, Alameda, Contra Costa, and San Mateo Counties, STPLZ-6000 (25)	Cameron Bauer and Heather Price	2007
S-034858	Collocation ("CO") Submission Packet, FCC Form 621, Krafty, SF-19590A	Lorma Billat	2008
S-038249	Historic Property Survey Report, the Alameda County Transit District's East Bay Bus Rapid Transit Project in Berkeley, Oakland, and San Leandro	Suzanne Baker	2010
S-046322	San Leandro Fiber Optic for Broadband Project, City of San Leandro, Alameda County, California; Cultural Resources Survey Report	Heiki Koenig	2014
S-050910	Historic Property Survey Report for the Proposed Hybrid Pedestrian Beacons Project, Alameda County, California, 04-ALAVAR, E-FIS 0414000287, EA 1J600	Jennifer Blake	2017
S-052721	Finding of No Adverse Effect, East Bay Greenway Project, Alameda County, 4-ALA, Oakland, Hayward, and San Leandro, Alameda County, California, ATPL-6480 (010), Alameda CTC Project #1457.001, Contract #A15-0030	J. Tait Elder	2018
Source: Northwester Information Center (NWIC) Records Search. May 4, 2022.			

Historic Aerials

A review of 16 historic aerials from 1946 to 2018 indicate that from the earliest aerial in 1946, the site was not developed. (Historic Aerials 2021). The garage and repair facility for cars at 14273 Washington Avenue was built between 1968 and 1980. The houses at 14123, 14173, and 14193 Washington Avenue were built between 1958 and 1968. The building at 14251 Washington Avenue was constructed after 1980.

3.1.2 - Native American Heritage Commission Record Search

On April 27, 2022, FCS sent a request to the NAHC in an effort to determine whether any sacred sites are listed on its Sacred Lands File for the project site. A response was received on May 29, 2022, indicating that the Sacred Lands File search produced a negative result for Native American cultural resources in the project area. The NAHC included a list of 11 tribal representatives available for consultation. To ensure that all Native American knowledge and concerns over potential TCRs that may be affected by implementation of the proposed project are addressed, FCS sent letters to all 11 tribal representatives on June 7, 2022. A response was received by the Confederated Villages of Lisjan Nation on June 25, 2022, indicating that the tribe has no further information or comment regarding the proposed project. No additional responses have been received to date. A copy of the NAHC record searches and Native American tribal correspondences can be found in Appendix C.

3.2 - Pedestrian Survey

3.2.1 - Pedestrian Survey

On May 13, 2022, FCS Senior Archaeologist Dr. Dana DePietro and FCS Archaeologist and Historian, Ti Ngo, surveyed the project site to identify any unrecorded cultural resources within the project boundary. The survey began in the northwest corner of the project site and moved south and east, using north–south transects spaced at 15-meter intervals whenever possible. The site was completely hardscaped with associated imported soil for landscaping elements. As a result, visibility of native soils was extremely poor, ranging between 1 to 5 percent. All areas of the project site were closely inspected for culturally modified soils or other indicators of potential historic or prehistoric resources. Native soils were visible in the northeastern portion of the project site. Visible soils were largely composed of medium brown (7.5 YR 4/3) sandy clay, interspersed with small granite stones ranging between 1 to 3 centimeters. No additional prehistoric or historic resources or raw materials commonly used in the manufacture of tools (e.g., obsidian, Franciscan chert, etc.) were found within the project site.

Survey conditions were documented using digital photographs and field notes. During the survey, Dr. DePietro and Mr. Ngo examined all areas of the exposed ground surface for prehistoric artifacts (e.g., fire-affected rock, milling tools, flaked stone tools, toolmaking debris, ceramics), soil discoloration and depressions that might indicate the presence of a cultural midden, faunal and human osteological remains, and features indicative of the former presence of structures or buildings (e.g., postholes, standing exterior walls, foundations) or historic debris (e.g., glass, metal, ceramics).

Dr. DePietro and Mr. Ngo initially encountered six structures within the project boundary that appeared to be over 45 years in age and had not previously been evaluated for their historical significance or potential for inclusion in the CRHR or NRHP. These structures included a wooden, yellow-painted single residence family residence and a collapsed house at 14143 Washington Avenue. To the rear of the residence at 14143 Washington Avenue (northwestern portion of the project site) is Zermeno's Custom Ironworks located at 14143-A Washington Avenue. This consists of an office building with associated workshop and storage containers. In the central eastern portion of the project site, there is large family residence and garage located at 14173 Washington Avenue. The southeastern portion of the project site is taken up by Star RVs. This 2-story building consists of a garage with four roll-up doors for vehicular storage and maintenance on its eastern half as well as an office space and reception area in its western half. An earlier version of this report called out the need to have the structures evaluated for full CEQA compliance, however all six were subsequently damaged by fire and demolished before the recommended evaluations could be completed (demolition permit numbers B22-1442, B22-1449, and B22-1453). Dr. DePietro conducted an updated pedestrian survey on January 18, 2022, and confirmed that all six buildings are no longer present at the site. As such, the properties are determined ineligible for inclusion in the CRHR or NRHP as they are no longer able to convey any historic integrity. No additional prehistoric or historic resources or raw materials commonly used in the manufacture of tools (e.g., obsidian, Franciscan chert, etc.) were found within the project site. Pedestrian survey photos can be found in Appendix D.

SECTION 4: SUMMARY AND RECOMMENDATIONS

4.1 - Summary

In accordance with CEQA Guidelines, FCS assessed the potential for the proposed project to have an adverse impact on known and potential cultural resources at the project site. Results from the NWIC indicate one historical cultural resource is recorded within a 0.5-mile search radius of the project site, which is not located within the project boundaries. Fourteen survey reports are on file within the 0.5-mile radius, none of which address the project site indicating that it has not been previously surveyed for unrecorded cultural resources. The pedestrian survey encountered six buildings on-site that appear to be over 45 years in age, but were destroyed in a fire before they could be evaluated for CRHR or NRHP eligibility.

The NAHC Sacred Lands File search reported a negative result for Native American cultural resources in the immediate project area. FCS contacted Native American representatives and to date, only the Confederated Villages of Lisjan Nation have responded, indicating that they have no further information or comment on the project.

4.2 - Recommendations

4.2.1 - Cultural Resources Recommendations

Based on the results of the records searches, archival research, tribal correspondence, and the pedestrian survey, FCS considers the potential for the proposed project to have an adverse effect on historic or prehistoric cultural resources to be moderate. There are no recorded cultural resources within project site, however the foundations of six historic era-buildings increase the probability that subsurface archaeological resources may be encountered during project construction.

FCS therefore recommends that an archaeologist who meets the Secretary of the Interior's Professional Qualification Standards for archaeology inspect the project site following the removal of all rubble, asphalt, and ground cover, and prior to any grading or trenching into previously undisturbed soils. This may be followed by regular periodic or "spot-check" archaeological monitoring as determined by the Archaeologist, but full-time construction monitoring is not warranted at this time. Additional procedures for the inadvertent discovery of human remains and cultural resources are provided below.

4.2.2 - Inadvertent Discovery of Human Remains

There is always the possibility that ground-disturbing activities during construction may uncover previously unknown buried human remains. Should this occur, Section 7050.5 of the California Health and Safety Code applies, and the following procedures shall be followed.

In the event of an accidental discovery or recognition of any human remains, Public Resources Code Section 5097.98 must be followed. In this instance, once project-related earthmoving begins and if there is accidental discovery or recognition of any human remains, the following steps shall be taken:

1. There shall be no further excavation or disturbance of the site, or any nearby area reasonably suspected to overlie adjacent human remains until the County Coroner is contacted to determine whether the remains are Native American and if an investigation of the cause of death is required. If the coroner determines the remains to be Native American, the coroner shall contact the NAHC within 24 hours, and the NAHC shall identify the person or persons it believes to be the "most likely descendant" of the deceased Native American. The most likely descendant may make recommendations to the landowner or the person responsible for the excavation work, for means of treating or disposing of, with appropriate dignity, the human remains, and any associated grave goods as provided in Public Resources Code Section 5097.98, or
2. Where the following conditions occur, the landowner or his/her authorized representative shall rebury the Native American human remains and associated grave goods with appropriate dignity either in accordance with the recommendations of the most likely descendant or on the project area in a location not subject to further subsurface disturbance:
    - The NAHC is unable to identify a most likely descendant, or the most likely descendant failed to make a recommendation within 48 hours after being notified by the Commission;
    - The descendant identified fails to make a recommendation; or
    - The landowner or his authorized representative rejects the recommendation of the descendant, and the mediation by the NAHC fails to provide measures acceptable to the landowner.

4.2.3 - Inadvertent Discovery of Cultural Resources

It is always possible that ground-disturbing activities during construction may uncover previously unknown, buried cultural resources. In the event that buried cultural resources are discovered during construction, operations shall stop in the immediate vicinity of the find and a qualified Archaeologist shall be consulted to determine whether the resource requires further study. The qualified Archaeologist shall make recommendations to the lead agency on the measures that shall be implemented to protect the discovered resources, including but not limited to excavation of the finds and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines. Potentially significant cultural resources consist of, but are not limited to, stone, bone, fossils, wood, or shell artifacts or features, including hearths, structural remains, or historic dumpsites. Any previously undiscovered resources found during construction within the Master Plan area should be recorded on appropriate California Department of Parks and Recreation (DPR) forms and evaluated for significance in terms of CEQA Guidelines.

If the resources are determined to be unique historic resources as defined under Section 15064.5 of the CEQA Guidelines, mitigation measures shall be identified by the monitor and recommended to the lead agency. Appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds.

No further grading shall occur in the area of the discovery until the lead agency approves the measures to protect these resources. Any archaeological artifacts recovered as a result of mitigation shall be donated to a qualified scientific institution approved by the lead agency where they would be afforded long-term preservation to allow future scientific study.

SECTION 5: REFERENCES

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Appendix F

Energy and Fuel Consumption Calculations

14143 Washington Avenue IS-MND

Last Updated: 09/26/2023

Compression-Ignition Engine Brake-Specific Fuel Consumption (BSFC) Factors **[1]**:

HP: 0 to 100	0.0588	HP: Greater than 100	0.0529

Values above are expressed in gallons per horsepower-hour/BSFC.

CONSTRUCTION EQUIPMENT

Construction Equipment	#	Hours per Day	Horsepower	Load Factor	Construction Phase	Fuel Used (gallons)
Concrete/Industrial Saws	1	8	81	0.73	Demolition Phase	556
Excavators	3	8	158	0.38	Demolition Phase	1,523
Rubber Tired Dozers	2	8	247	0.4	Demolition Phase	1,671
Rubber Tired Dozers	3	8	247	0.4	Site Preparation Phase	627
Tractors/Loaders/Backhoes	4	8	97	0.37	Site Preparation Phase	337
Excavators	1	8	158	0.38	Grading Phase	203
Graders	1	8	187	0.41	Grading Phase	259
Rubber Tired Dozers	1	8	247	0.4	Grading Phase	334
Tractors/Loaders/Backhoes	3	8	97	0.37	Grading Phase	405
Cranes	1	7	231	0.29	Building Construction Phase	5,701
Forklifts	3	8	89	0.2	Building Construction Phase	5,774
Generator Sets	1	8	84	0.74	Building Construction Phase	6,721
Tractors/Loaders/Backhoes	3	7	97	0.37	Building Construction Phase	10,187
Welders	1	8	46	0.45	Building Construction Phase	2,238
Cement and Mortar Mixers	2	6	9	0.56	Paving Phase	64
Pavers	1	8	130	0.42	Paving Phase	416
Paving Equipment	2	6	132	0.36	Paving Phase	543
Tractors/Loaders/Backhoes	1	8	97	0.37	Paving Phase	304
Rollers	2	6	80	0.38	Paving Phase	386
Air Compressors	1	6	78	0.48	Architectural Coating Phase	238
					Total Fuel Used	**38,487 (Gallons)**

Construction Phase	Days of Operation
Demolition Phase	20
Site Preparation Phase	5
Grading Phase	8
Building Construction Phase	230
Paving Phase	18
Architectural Coating Phase	18
Total Days	299

WORKER TRIPS

Constuction Phase	MPG [2]	Trips	Trip Length (miles)	Fuel Used (gallons)
Demolition Phase	24.1	15	10.8	134.44
Site Preparation Phase	24.1	18	10.8	40.33
Grading Phase	24.1	15	10.8	53.78
Building Construction Phase	24.1	63	10.8	6493.44
Paving Phase	24.1	20	10.8	161.33
Architectural Coating Phase	24.1	13	10.8	104.86
			Total	**6,988.18**

HAULING AND VENDOR TRIPS

Trip Class	MPG [2]	Trips	Trip Length (miles)	Fuel Used (gallons)
HAULING TRIPS				

Demolition Phase	7.5	407	20.0	1085.33
Site Preparation Phase	7.5	0	20.0	0.00
Grading Phase	7.5	0	20.0	0.00
Building Construction Phase	7.5	0	20.0	0.00
Paving Phase	7.5	0	20.0	0.00
Architectural Coating Phase	7.5	0	20.0	0.00
		Total		**1,085.33**
		VENDOR TRIPS		
Demolition Phase	7.5	0	14.7	0.00
Site Preparation Phase	7.5	0	14.7	0.00
Grading Phase	7.5	0	14.7	0.00
Building Construction Phase	7.5	25	7.3	5596.67
Paving Phase	7.5	0	14.7	0.00
Architectural Coating Phase	7.5	0	14.7	0.00
		Total		**5,596.67**

Total Gasoline Consumption (gallons)	**6,988**
Total Diesel Consumption (gallons)	**45,169**

Sources:

[1] United States Environmental Protection Agency. 2021. *Exhaust and Crankcase Emission Factors for Nonroad Compression-Ignition Engines in MOVES3.0.2* . September. Available at: https://www.epa.gov/system/files/documents/2021-08/420r21021.pdf.

[2] United States Department of Transportation, Bureau of Transportation Statistics. 2021. *National Transportation Statistics* . Available at: https://www.bts.gov/topics/national-transportation-statistics.

14143 Washington Avenue IS-MND

Last Updated: 09/26/2023

Populate one of the following tables (Leave the other blank):

Annual VMT		OR	Daily Vehicle Trips	
Annual VMT:	820,403		Daily Vehicle Trips:	
			Average Trip Distance:	

Fleet Class	Fleet Mix
Light Duty Auto (LDA)	0.642760
Light Duty Truck 1 (LDT1)	0.059898
Light Duty Truck 2 (LDT2)	0.190854
Medium Duty Vehicle (MDV)	0.118959
Light Heavy Duty 1 (LHD1)	0.300770
Light Heavy Duty 2 (LHD2)	0.074230
Medium Heavy Duty (MHD)	0.178571
Heavy Heavy Duty (HHD)	0.446429
Other Bus (OBUS)	0.000792
Urban Bus (UBUS)	0.000570
Motorcycle (MCY)	0.026013
School Bus (SBUS)	0.000337
Motorhome (MH)	0.002451

Fuel Economy (MPG) [1]	
Passenger Vehicles	24.1
Light-Med Duty Trucks	17.6
Heavy Trucks/Other	7.5
Motorcycles	44

Fleet Mix

Vehicle Type	Fuel Type	Annual VMT: VMT	Vehicle Trips: VMT	Fuel Consumption (Gallons)
Passenger Vehicles	*Gasoline*	527,322	0.00	21,881
Light-Medium Duty Trucks	*Gasoline*	303,312	0.00	17,234
Heavy Trucks/Other	*Diesel*	823,808	0.00	109,841
Motorcycle	*Gasoline*	21,341	0.00	485

Total Gasoline Consumption (gallons)	**39,599**
Total Diesel Consumption (gallons)	**109,841**

Sources:

[1] United States Department of Transportation, Bureau of Transportation Statistics. 2021. National Transportation Statistics. Available at: https://www.bts.gov/topics/national-transportation-statistics.

Appendix G

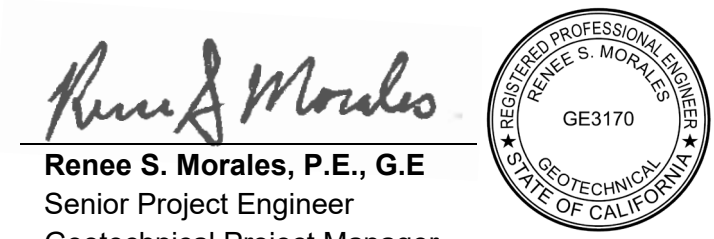
Geotechnical Investigation

CORNERSTONE EARTH GROUP

TYPE OF SERVICES	Geotechnical Investigation
PROJECT NAME	Washington Industrial Facility
LOCATION	14273 Washington Avenue San Leandro, California
CLIENT	First Industrial Realty Trust, Inc.
PROJECT NUMBER	1262-2-1
DATE	March 22, 2021

CORNERSTONE EARTH GROUP

Type of Services	**Geotechnical Investigation**
Project Name	**Washington Industrial Facility**
Location	**14273 Washington Avenue San Leandro, California**
Client	**First Industrial Realty Trust, Inc.**
Client Address	**1111 Broadway, 5th Floor Oakland, California**
Project Number	**1262-2-1**
Date	**March 22, 2021**



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CORNERSTONE EARTH GROUP

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CORNERSTONE EARTH GROUP

Type of Services	**Geotechnical Investigation**
Project Name	**Washington Industrial Facility**
Location	**14273 Washington Avenue** **San Leandro, California**

SECTION 1: INTRODUCTION

This geotechnical report was prepared for the sole use of First Industrial Realty Trust, Inc. for the Washington Industrial Facility in San Leandro, California. The location of the site is shown on the Vicinity Map, Figure 1. For our use, we were provided with the following documents:

- A preliminary site plan titled, "Scheme 2, Conceptual Site Plan, Washington Avenue, San Leandro, CA," prepared by HPA Architects, dated December 25, 2020.

1.1 PROJECT DESCRIPTION

The project will include redeveloping an approximately 3½-acre site for a new warehouse. Based on the provided conceptual site plan, the project will include constructing an approximately 52,500 square foot warehouse building. The building will likely be single story with interior clear height of 36 to 38 feet and consist of concrete tilt-up construction. Dock doors and two drive-thru doors will be located along the west side of the building. At-grade auto and trailer parking and drive aisles will occupy the reminder of the site. Appurtenant utilities, landscaping, storm water management areas, and other improvements necessary for overall site development will also be constructed.

Building loads are expected to be typical to this type of construction. Site grading with cuts and fills on the order of 1 to 3 feet are estimated.

1.2 SCOPE OF SERVICES

Our scope of services was presented in our proposal dated January 22, 2021 and consisted of field and laboratory programs to evaluate physical and engineering properties of the subsurface soils, engineering analysis to prepare recommendations for site work and grading, building foundations, flatwork, retaining walls, and pavements, and preparation of this report. Brief descriptions of our exploration and laboratory programs are presented below.

1.3 EXPLORATION PROGRAM

Field exploration consisted of three borings drilled on March 1, 2021 with truck-mounted hollow-stem auger drilling equipment and four Cone Penetration Tests (CPTs) advanced on February 19, 2021. The borings were drilled to depths of approximately 30 to 40 feet; the CPTs were advanced to depths of approximately 50 to 100 feet. Seismic shear wave velocity measurements were collected from CPT-2. Three of the borings (Borings EB-1, EB-2, and EB-3) were advanced adjacent to CPT-1, CPT-2, and CPT-4 for direct evaluation of physical samples to correlated soil behavior, respectively.

The borings and CPTs were backfilled with cement grout in accordance with local requirements; exploration permits were obtained as required by local jurisdictions.

The approximate locations of our exploratory borings are shown on the Site Plan, Figure 2. Details regarding our field program are included in Appendix A.

1.4 LABORATORY TESTING PROGRAM

In addition to visual classification of samples, the laboratory program focused on obtaining data for foundation design and seismic ground deformation estimates. Testing included moisture contents, dry densities, grain size analyses, Plasticity Index tests, corrosivity, and a consolidation test. Details regarding our laboratory program are included in Appendix B.

1.5 CORROSION EVALUATION

Three samples from our borings at depths ranging from approximately 2 to 6 feet were tested for saturated resistivity, pH, and soluble sulfates and chlorides. In general, the on-site soils can be characterized as severely to severely corrosive to buried metal, and non-corrosive to buried concrete.

1.6 ENVIRONMENTAL SERVICES

Environmental services were not requested for this project. If environmental concerns are determined to be present during future evaluations, the project environmental consultant should review our geotechnical recommendations for compatibility with the environmental concerns.

SECTION 2: REGIONAL SETTING

2.1 REGIONAL SEISMICITY

The San Francisco Bay area region is one of the most seismically active areas in the Country. While seismologists cannot predict earthquake events, geologists from the U.S. Geological Survey have recently updated earlier estimates from their 2015 Uniform California Earthquake Rupture Forecast (Version 3) publication. The estimated probability of one or more magnitude 6.7 earthquakes (the size of the destructive 1994 Northridge earthquake) expected to occur somewhere in the San Francisco Bay Area has been revised (increased) to 72 percent for the

period 2014 to 2043 (Aagaard et al., 2016). The faults in the region with the highest estimated probability of generating damaging earthquakes between 2014 and 2043 are the Hayward (33%), Rodgers Creek (33%), Calaveras (26%), and San Andreas Faults (22%). In this 30-year period, the probability of an earthquake of magnitude 6.7 or larger occurring is 22 percent along the San Andreas Fault and 33 percent for the Hayward or Rodgers Creek Faults.

The faults considered capable of generating significant earthquakes are generally associated with the well-defined areas of crustal movement, which trend northwesterly. The table below presents the State-considered active faults within 25 kilometers of the site.

Table 1: Approximate Fault Distances

Fault Name	Distance	
	(miles)	(kilometers)
Hayward (Total Length)	1.6	2.5
Calaveras	10.1	16.3
Concord-Green Valley	15.5	25.0

A regional fault map is presented as Figure 3, illustrating the relative distances of the site to significant fault zones.

SECTION 3: SITE CONDITIONS

3.1 SITE BACKGROUND

We reviewed historical aerial imagery provided online by Historical Aerials (http://www.historicaerials.com) and Google Earth Pro (2021). A summary of pertinent surface changes at and in the near vicinity of the site is as follows:

- 1958: The northern section of project site appears to be occupied by multiple residential homes and the southern section of the site consists of agricultural fields.
- 1980: A few of the residentials homes to the north are still present. The agricultural field and two of the residential homes appear to have been demolished and this portion of the site was developed into a staging lot with concrete and asphalt pavements. The current one-story commercial building at the southern edge is observed.
- 1993: Additional residential homes appear to have been demolished and additional concrete pavement is added to the lot.
- 2005: Remaining residential homes in the northern section of the site appear to have pavement placed adjacent to the structures.

- 2020: A high bay metal structure is constructed near the center of the site. No other major changes were observed and the site appears to be similar to its current state.

Based on our research of the California GeoTracker website, a case history was present at the 14273 Washington Avenue address. A tank closure report dated April 23, 1992 and a case closure letter and summary from the Regional Water Quality Control Board dated June 17, 1997 states that three underground storage tanks (USTs) were previously removed in 1991 and 1992. Based on the summary, the removal consisted of one 5,000-gallon and two 1,000-gallon USTs located on the 14273 Washington Avenue address. The discovery of the presence of diesel and gasoline in the underlying soil prompted remedial work. The remedial excavation to over-excavate the impacted soil produced approximately 2,400 cubic yards of soil. This soil was removed from the site in 1992 and 1995. An accompanying site plan roughly indicates the location of the over-excavation and denotes it on the site plan as “Former Tank Excavation”. Based on our review, the precise depth and extent of the “Former Tank Excavation” are not clearly defined but are estimated based on various hand drawn site maps. Based on sampling depths on the “Former Tank Excavation”, the excavation was potentially taken to a depth of 18 to 20 feet below site grades. The summary states that once contamination was no longer observed, the excavation was backfilled and paved over. Records of compaction were not present.

3.2 SURFACE DESCRIPTION

The project site is situated in an industrial area with adjacent commercial and industrial buildings. The site is bound by Washington Avenue to the northeast, commercial and industrial use properties to the southeast and northwest, and railroad tracks to the west. The project site can be identified as a previous recreational vehicle (RV) rental lot at the center and southern portion and residential lots to the north. The RV lot is mainly covered with concrete pavement with a few asphalt pavement locations. The one-story masonry commercial building is situated near the southeastern margin of the site. Landscaping areas are present along Washington Avenue.

The residential lots on the northern portion of the project site contain multiple one-story residential buildings and storage sheds. The lots appear to be paved with asphalt, concrete, and pavers along the driveways and backyards. Multiple landscaping areas are present with several large trees observed.

The project site is relatively level, but graded to drain to storm drainage facilities with elevations ranging from about 40 feet to 43 feet (Google Earth Pro, WGS84).

Surface pavements measured from our borings generally consisted of 6 to 8 inches of concrete over 4 to 6 inches of aggregate base. Based on visual observations, the existing pavements are in poor shape with moderate to significant alligator cracking.

3.3 SUBSURFACE CONDITIONS

Below the surface pavements, our explorations generally encountered undocumented fill underlain by native alluvial soils. Undocumented fill was encountered in our three borings to a depth of 3 feet below existing site grades and consisted of lean clay with gravel. Below the fills, our borings generally encountered alluvial soils consisting of medium stiff to very stiff lean clay

with variable amounts of sand interbedded with loose to medium dense silty sand to a depth of 40 feet, the maximum boring depth explored. High plasticity clay was observed in Boring EB-2 from a depth of approximately 27 to 32 feet. Below our maximum boring depth, CPT correlations indicate fine-grained soil consisting of clayey silt, silty clay, and sandy silt with interbedded layers of silty sand to a depth of approximately 50 feet. Below a depth of 50 feet, CPT-2 correlations indicate additional fine grain soil to a depth of approximately 57 feet. A large layer of sand, gravelly sand, and silty sand was indicated between approximately 57 to 72 feet below existing ground surface. Below this granular layer, additional fine-grained soils consisting of clay, silty clay, clayey silt and sandy silt were indicated to a depth of 100 feet with interbedded layers of sand and gravelly sand at approximately 88 feet and 95 feet below the existing ground surface. Our CPT data generally correlates to our borings and subsurface conditions to the maximum depths explored.

3.3.1 Plasticity/Expansion Potential

We performed two Plasticity Index (PI) tests on representative samples. Test results were used to evaluate expansion potential of surficial soils. The results of the surficial PI tests indicated PIs ranging from 22 to 24, indicating moderate expansion potential to wetting and drying cycles.

3.3.2 In-Situ Moisture Contents

Laboratory testing indicated that the in-situ moisture contents within the upper 10 feet range from 15 to 26 percent moisture. In our opinion, we estimated this corresponds to about 3 to 8 percent above the estimated laboratory optimum moisture content.

3.4 GROUNDWATER

Groundwater was encountered in some of our explorations. Pore pressure measurements from CPT-2 and CPT-4 inferred groundwater at depths ranging from 17½ to 18 feet below current grades. Groundwater was encountered in Borings EB-1 to EB-3 at depths ranging from 17 to 20 feet below current grades. All measurements were taken at the time of drilling and may not represent the stabilized levels that can be higher than the initial levels encountered.

Published data (CGS, San Leandro 7.5-minute Quadrangle, 2003) indicated that seasonal and/or historical high groundwater levels in the vicinity of the site are on the order of 15 feet below the ground surface. Based on our review of monitoring well data from the California GeoTracker website, monitoring wells on a site located at 14336 Washington Avenue, approximately 600 feet southeast along Washington Avenue, recorded groundwater depths between 12 to 17 feet below current grades.

In general, fluctuations in groundwater levels occur due to many factors including seasonal fluctuation, underground drainage patterns, regional fluctuations, and other factors.
Based on the above information, we recommend a design groundwater depth of 12 feet below current grades.

3.5 PRELIMINARY CORROSION SCREENING

We tested three samples collected at depths ranging from approximately 2 to 6 feet for resistivity, pH, soluble sulfates, and chlorides. The laboratory test results are summarized in Table 2.

Table 2: Summary of Corrosion Test Results

Test Location Number	Depth (feet)	Soil pH[(1)]	Minimum Resistivity[(2)] (ohm-cm)	Chloride[(3)] (mg/kg)	Sulfate[(3)(4)] (mg/kg)
EB-1	6	6.3	1,080	9	112
EB-2	3½	6.9	1,488	11	28
EB-3	2	7.6	1,328	25	124

Notes: (1) ASTM G51
(2) ASTM G57 - 100% saturation
(3) ASTM D4327
(4) 1 mg/kg = 0.0001 % by dry weight

Many factors can affect the corrosion potential of soil including moisture content, resistivity, permeability, and pH, as well as chloride and sulfate concentration. Typically, soil resistivity, which is a measurement of how easily electrical current flows through a medium (soil and/or water), is the most influential factor. In addition to soil resistivity, chloride and sulfate ion concentrations, and pH also contribute in affecting corrosion potential.

3.5.1 Preliminary Soil Corrosion Screening

Based on the laboratory test results summarized in Table 2 and published correlations between resistivity and corrosion potential, the soils may be considered severely corrosive to buried metallic improvements (Chaker and Palmer, 1989).

In accordance with the 2019 CBC Section 1904.1, alternative cementitious materials for different exposure categories and classes shall be determined in accordance with ACI 318-19 Table 19.3.1.1, Table R19.3.1, and Table 19.3.2.1. Based on the laboratory sulfate test results, no cement type restriction is required, although, in our opinion, it is generally a good idea to include some sulfate resistance and to maintain a relatively low water-cement ratio. We have summarized applicable exposure categories and classes from ACI 318-19, Table 19.3.1.1 below in Table 3A.

Table 3A: ACI 318-19 Table 19.3.1.1 Exposure Categories and Classes

Freezing and Thawing (F)	Sulfate (S, soil)	In Contact with Water (W)	Corrosion Protection of Reinforcement (C)
F0[1]	S0[2]	W1[3]	C1[4]

1 (F0) “Concrete not exposed to freezing-and-thawing cycles” (ACI 318-19)
2 (S0) “Water soluble sulfate in soil, percent by mass” is less than 0.10 (ACI 318-19)
3 (W1) “Concrete in contact with water and low permeability is not required” (ACI 318-19)
4 (C1) “Concrete exposed to moisture but not to an external source of chlorides” (ACI 318-19)

In addition, ACI 318-19, Table 19.3.2.1 provides requirements for concrete by exposure class. Table 3B below indicates different requirements that we recommend be followed for the concrete design.

Table 3B: ACI 318-19 Table 19.3.2.1 Requirements for Concrete by Exposure Class

Exposure Class	Maximum water:cement ratio	Minimum Compressive Strength (psi)	Maximum Water-Soluble Chloride Ion Content (% wt)
F0	N/A	2,500	N/A
S0 (soil)	N/A	2,500	N/A
W1[1]	N/A	2,500	None
C1	N/A	2,500	0.30 (0.06)[2]

1 Per section 26.4.2.2(d), For concrete identified as being exposed to water in service, evidence shall be submitted that the concrete mixture complies with (1) and (2):
(1) Aggregates are not alkali-silica reactive or measures to mitigate alkali-silica reactivity have been established.
(2) Aggregates are not alkali-carbonate reactive
2 Maximum water-soluble chloride ion content for non-prestressed concrete (value for prestressed concrete).

We recommend the structural engineer and a corrosion engineer be retained to confirm the information provided and for additional recommendations, as required.

SECTION 4: GEOLOGIC HAZARDS

4.1 FAULT RUPTURE

As discussed above several significant faults are located within 25 kilometers of the site. The site is not located within a State-designated Alquist Priolo Earthquake Fault Zone. As shown in Figure 3, no known surface expression of fault traces is thought to cross the site; therefore, fault rupture hazard is not a significant geologic hazard at the site.

4.2 ESTIMATED GROUND SHAKING

Moderate to severe (design-level) earthquakes can cause strong ground shaking, which is the case for most sites within the Bay Area. A peak ground acceleration (PGA_M) was estimated following the ground motion hazard analysis procedure presented in Chapter 16 and 18 and Appendix J of the 2019 California Building Code (CBC) and Chapter 21, Section 21.2 of ASCE 7-16 and Supplement No. 1. For our analysis we used a PGA_M of 1.00g, which was determined in accordance with Section 21.5 of ASCE 7-16.

4.3 LIQUEFACTION POTENTIAL

The site is within a State-designated Liquefaction Hazard Zone (CGS, San Leandro Quadrangle, 2003). Our field and laboratory programs addressed this issue by testing and sampling potentially liquefiable layers to depths of at least 50 feet, performing visual classification on sampled materials, evaluating CPT data, and performing various tests to further classify soil properties.

4.3.1 Background

During strong seismic shaking, cyclically induced stresses can cause increased pore pressures within the soil matrix that can result in liquefaction triggering, soil softening due to shear stress loss, potentially significant ground deformation due to settlement within sandy liquefiable layers as pore pressures dissipate, and/or flow failures in sloping ground or where open faces are present (lateral spreading) (NCEER 1998). Limited field and laboratory data is available regarding ground deformation due to settlement; however, in clean sand layers settlement on the order of 2 to 4 percent of the liquefied layer thickness can occur. Soils most susceptible to liquefaction are loose, non-cohesive soils that are saturated and are bedded with poor drainage, such as sand and silt layers bedded with a cohesive cap.

4.3.2 Analysis

As discussed in the "Subsurface" section above, several sand layers were encountered below the design ground water depth of 12 feet. Following the liquefaction analysis framework in the 2008 monograph, *Soil Liquefaction During Earthquakes* (Idriss and Boulanger, 2008), incorporating updates in *CPT and SPT Based Liquefaction Triggering Procedures* (Boulanger and Idriss, 2014), and in accordance with CDMG Special Publication 117A guidelines (CDMG, 2008) for quantitative analysis, these layers were analyzed for liquefaction triggering and potential post-liquefaction settlement. These methods compare the ratio of the estimated cyclic shaking (Cyclic Stress Ratio - CSR) to the soil's estimated resistance to cyclic shaking (Cyclic Resistance Ratio - CRR), providing a factor of safety against liquefaction triggering. Factors of safety less than or equal to 1.3 are considered to be potentially liquefiable and capable of post-liquefaction re-consolidation (i.e. settlement).

The CSR for each layer quantifies the stresses anticipated to be generated due to a design-level seismic event, is based on the peak horizontal acceleration generated at the ground surface discussed in the "Estimated Ground Shaking" section above, and is corrected for overburden and stress reduction factors as discussed in the procedure developed by Seed and Idriss (1971) and updated in the 2008 Idriss and Boulanger monograph.

The soil's CRR is estimated from the in-situ measurements from CPTs and laboratory testing on samples retrieved from our borings. SPT "N" values obtained from hollow-stem auger borings were not used in our analyses, as the "N" values obtained are less reliable in sands below ground water. The tip pressures are corrected for effective overburden stresses, taking into consideration both the ground water level at the time of exploration and the design ground water level, and stress reduction versus depth factors. The CPT method utilizes the soil behavior type index (I_C) to estimate the plasticity of the layers. Selected soil samples collected from advancing the CPT equipment adjacent to CPT-1, CPT-2, and CPT-4 were tested to evaluate grain size, as well as visually observed for confirmation of CPT soil behavior types.

The results of our CPT analyses (CPT-1 to CPT-4) are presented on Figures 4A to 4D of this report. Calculations for these CPTs are attached as Appendix C.

4.3.3 Summary

Our analyses indicate that several layers could potentially experience liquefaction triggering that could result in post-liquefaction total settlement at the ground surface ranging from ¼- to ⅓-inches based on the Yoshimine (2006) method. As discussed in SP 117A, differential movement for level ground sites over deep soil sites will be up to about two-thirds of the total settlement between independent foundation elements. In our opinion, differential settlements are anticipated to be on the order of ¼-inch between independent foundation elements.

4.3.4 Ground Rupture Potential

The methods used to estimate liquefaction settlements assume that there is a sufficient cap of non-liquefiable material to prevent ground rupture or sand boils. For ground rupture to occur, the pore water pressure within the liquefiable soil layer will need to be great enough to break through the overlying non-liquefiable layer, which could cause significant ground deformation and settlement. The work of Youd and Garris (1995) indicates that the 12-foot thick layer of non-liquefiable cap is sufficient to prevent ground rupture; therefore the above total settlement estimates are reasonable.

4.4 LATERAL SPREADING

Lateral spreading is horizontal/lateral ground movement of relatively flat-lying soil deposits towards a free face such as an excavation, channel, or open body of water; typically lateral spreading is associated with liquefaction of one or more subsurface layers near the bottom of the exposed slope. As failure tends to propagate as block failures, it is difficult to analyze and estimate where the first tension crack will form.

There are no open faces within a distance considered susceptible to lateral spreading; therefore, in our opinion, the potential for lateral spreading to affect the site is low.

4.5 SEISMIC SETTLEMENT/UNSATURATED SAND SHAKING

Loose unsaturated sandy soils can settle during strong seismic shaking. As the soils encountered at the site were predominantly very stiff to hard clays, in our opinion, the potential for significant differential seismic settlement affecting the proposed improvements is low.

4.6 TSUNAMI/SEICHE

The terms tsunami or seiche are described as ocean waves or similar waves usually created by undersea fault movement or by a coastal or submerged landslide. Tsunamis may be generated at great distance from shore (far field events) or nearby (near field events). Waves are formed, as the displaced water moves to regain equilibrium, and radiates across the open water, similar to ripples from a rock being thrown into a pond. When the waveform reaches the coastline, it quickly raises the water level, with water velocities as high as 15 to 20 knots. The water mass, as well as vessels, vehicles, or other objects in its path create tremendous forces as they impact coastal structures.

Tsunamis have affected the coastline along the Pacific Northwest during historic times. The Fort Point tide gauge in San Francisco recorded approximately 21 tsunamis between 1854 and 1964. The 1964 Alaska earthquake generated a recorded wave height of 7.4 feet and drowned eleven people in Crescent City, California. For the case of a far-field event, the Bay area would have hours of warning; for a near field event, there may be only a few minutes of warning, if any.

A tsunami or seiche originating in the Pacific Ocean would lose much of its energy passing through San Francisco Bay. Based on the study of tsunami inundation potential for the San Francisco Bay Area (Ritter and Dupre, 1972), areas most likely to be inundated are marshlands, tidal flats, and former bay margin lands that are now artificially filled, but are still at or below sea level, and are generally within 1½ miles of the shoreline. The site is approximately 2¼ miles inland from the San Francisco Bay shoreline, and is approximately 40 to 43 feet above mean sea level. Therefore, the potential for inundation due to tsunami or seiche is considered low.

4.7 FLOODING

Based on our internet search of the Federal Emergency Management Agency (FEMA) flood map public database, the site is located within Zone X, an area of minimal flood hazard. We recommend the project civil engineer be retained to confirm this information.

SECTION 5: CONCLUSIONS

5.1 SUMMARY

From a geotechnical viewpoint, the project is feasible provided the concerns listed below are addressed in the project design. Descriptions of each concern with brief outlines of our recommendations follow the listed concerns.

- Potential for Liquefaction-Induced Settlements
- Presence of Undocumented Fills and Redevelopment Considerations
- Presence of Moderately Expansive Soils
- Soil Corrosion Potential

5.1.1 Potential for Liquefaction-Induced Settlements

As discussed, our liquefaction analysis indicates that there is a potential for liquefaction of localized sand layers during a significant seismic event. Although the potential for liquefied sands to vent to the ground surface through cracks in the surficial soils is low, our analysis indicates that liquefaction-induced settlement on the order of ¼- to ⅓-inches could occur, resulting in differential settlement up to ¼ inch. Foundations should be designed to tolerate the anticipated total and differential settlements. Detailed foundation recommendations are presented in the “Foundations” section.

5.1.2 Presence of Undocumented Fill and Redevelopment Considerations

Undocumented fills consisting of lean clay with gravel were encountered in our borings to a depth of 3 feet below existing ground surface. Additionally, we anticipate additional surficial fills from previous development to be present throughout the site. Also, former USTs were removed from the 14273 Washington Avenue site in 1991 and 1992 and subsequent remedial over-excavation likely generated an excavation on the order or 18 to 20 feet deep. The remedial over-excavation was backfilled and paved over, however; we do not have compaction documentation of the backfill.

Undocumented fills are expected to be variable in thickness, density, and consistency across the site. We recommend any fill be completely removed from within the building areas and replaced as engineered fill. As discussed, the site is currently developed and had previously been developed and previous improvements have been demolished. Potential issues that are often associated with redeveloping sites include demolition of existing improvements, abandonment of existing utilities, and undocumented fills. Please refer to the "Earthwork" section below for further recommendations.

5.1.3 Expansive Soils

Moderately expansive surficial soils generally blanket the site. Expansive soils can undergo significant volume change with changes in moisture content. They shrink and harden when dried and expand and soften when wetted. To reduce the potential for damage to the planned structures, slabs-on-grade should have sufficient reinforcement and be supported on a layer of non-expansive fill; footings should extend below the zone of seasonal moisture fluctuation. In addition, it is important to limit moisture changes in the surficial soils by using positive drainage away from buildings as well as limiting landscaping watering. Detailed grading and foundation recommendations addressing this concern are presented in the following sections.

5.1.4 Soil Corrosion Potential

A preliminary soil corrosion screening was performed based on the results of analytical tests on samples at depths ranging from 2 to 6 feet below existing ground surface. Testing on the samples indicate sulfate exposure is low and therefore sulfate resistant concrete is not required per published ACI guidelines. However, the corrosion potential for buried metallic structures, such as metal pipes, is considered severely corrosive based on comparisons to published standards. We recommend that special requirements for corrosion control be made to protect metal pipes. We recommend that a corrosion engineer be retained to review this information, provide additional recommendations as needed, and perform additional testing as deemed necessary for the proposed site development.

5.2 PLANS AND SPECIFICATIONS REVIEW

We recommend that we be retained to review the geotechnical aspects of the project structural, civil, and landscape plans and specifications, allowing sufficient time to provide the design team with any comments prior to issuing the plans for construction.

5.3 CONSTRUCTION OBSERVATION AND TESTING

As site conditions may vary significantly between the small-diameter borings performed during this investigation, we also recommend that a Cornerstone representative be present to provide geotechnical observation and testing during earthwork and foundation construction. This will allow us to form an opinion and prepare a letter at the end of construction regarding contractor compliance with project plans and specifications, and with the recommendations in our report. We will also be allowed to evaluate any conditions differing from those encountered during our investigation, and provide supplemental recommendations as necessary. For these reasons, the recommendations in this report are contingent of Cornerstone providing observation and testing during construction. Contractors should provide at least a 48-hour notice when scheduling our field personnel.

SECTION 6: EARTHWORK

6.1 SITE DEMOLITION

All existing improvements not to be reused for the current development, including all foundations, flatwork, pavements, utilities, and other improvements should be demolished and removed from the site. Recommendations in this section apply to the removal of these improvements, which are currently present on the site, prior to the start of mass grading or the construction of new improvements for the project.

Cornerstone should be notified prior to the start of demolition, and should be present on at least a part-time basis during all backfill and mass grading as a result of demolition. Occasionally, other types of buried structures (wells, cisterns, debris pits, etc.) can be found on sites with prior development. If encountered, Cornerstone should be contacted to address these types of structures on a case-by-case basis.

6.1.1 Demolition of Existing Slabs, Foundations and Pavements

All slabs, foundations, and pavements should be completely removed from within planned building areas.

Existing foundations are typically mat-slabs, shallow footings, or piers/piles. If slab or shallow footings are encountered, they should be completely removed. If drilled piers are encountered, they should be cut off at an elevation at least 60-inches below proposed footings or the final subgrade elevation, whichever is deeper. The remainder of the drilled pier could remain in place. Foundation elements to remain in place should be surveyed and superimposed on the proposed development plans to determine the potential for conflicts or detrimental impacts to the planned construction. Following review, additional mitigation or planned foundation elements may need to be modified.

6.1.2 Abandonment of Existing Utilities

All utilities should be completely removed from within planned building areas. For any utility line to be considered acceptable to remain within building areas, the utility line must be completely backfilled with grout or sand-cement slurry (sand slurry is not acceptable), the ends outside the building area capped with concrete, and the trench fills either removed and replaced as engineered fill with the trench side slopes flattened to at least 1:1, or the trench fills are determined not to be a risk to the structure. The assessment of the level of risk posed by the particular utility line will determine whether the utility may be abandoned in place or needs to be completely removed. The contractor should assume that all utilities will be removed from within building areas unless provided written confirmation from both the owner and the geotechnical engineer.

Utilities extending beyond the building area may be abandoned in place provided the ends are plugged with concrete, they do not conflict with planned improvements, and that the trench fills do not pose significant risk to the planned surface improvements.

The risk for owners associated with abandoning utilities in place include the potential for future differential settlement of existing trench fills, and/or partial collapse and potential ground loss into utility lines that are not completely filled with grout.

6.2 SITE CLEARING AND PREPARATION

6.2.1 Site Stripping

The site should be stripped of all surface vegetation, and surface and subsurface improvements to be removed within the proposed development area. Demolition of existing improvements is discussed in the prior paragraphs. A detailed discussion of removal of existing fills is provided later in this report. Surface vegetation and topsoil should be stripped to a sufficient depth to remove all material greater than 3 percent organic content by weight. Surficial stripping should extend about 4 to 6 inches below existing grade in vegetated areas and isolated planters.

6.2.2 Tree and Shrub Removal

Trees and shrubs designated for removal should have the root balls and any roots greater than ½-inch diameter removed completely. Mature trees are estimated to have root balls extending to depths of 2 to 4 feet, depending on the tree size. Significant root zones are anticipated to extend to the diameter of the tree canopy. Grade depressions resulting from root ball removal should be cleaned of loose material and backfilled in accordance with the recommendations in the “Compaction” section of this report.

6.3 REMOVAL OF EXISTING FILLS

As discussed earlier, undocumented fills were encountered in our borings ranging up to 3 feet in depth. Additionally, up to 20 feet of undocumented fill may be present at the “Former Tank Excavation” mentioned above. All fills should be completely removed from within building areas

and to a lateral distance of at least 5 feet beyond the building footprint or to a lateral distance equal to fill depth below the perimeter footing, whichever is greater. Provided the fills meet the "Material for Fill" requirements below, the fills may be reused when backfilling the excavations. Based on review of the samples collected from our borings, it appears that the fill may be reused. If materials are encountered that do not meet the requirements, such as debris, wood, trash, those materials should screened out of the remaining material and be removed from the site. Backfill of excavations should be placed in lifts and compacted in accordance with the "Compaction" section below.

Fills extending into planned pavement and flatwork areas may be left in place provided they are determined to be a low risk for future differential settlement and that the upper 12 to 18 inches of fill below pavement subgrade is re-worked and compacted as discussed in the "Compaction" section below.

6.3.1 Exploration Test Pits

As previously mentioned, undocumented fill can be variable in thickness, density, and consistency across the site. We recommend exploration test pits be performed to determine the depth of fills within the building footprint prior to grading. This additional information can be used to better define the limits of fill and provided to earthwork contractors for estimating.

6.4 TEMPORARY CUT AND FILL SLOPES

The contractor is responsible for maintaining all temporary slopes and providing temporary shoring where required. Temporary shoring, bracing, and cuts/fills should be performed in accordance with the strictest government safety standards. On a preliminary basis, the upper 10 feet at the site may be classified as OSHA Site C materials.

Excavations performed during site demolition and fill removal should be sloped at 3:1 (horizontal:vertical) within the upper 5 feet below building subgrade. Excavations extending more than 5 feet below building subgrade and excavations in pavement and flatwork areas should be slope at a 1:1 inclination unless the OSHA soil classification indicates that slope should not exceed 1.5:1.

6.5 SUBGRADE PREPARATION

After site clearing and demolition is complete, and prior to backfilling any excavations resulting from fill removal or demolition, the excavation subgrade and subgrade within areas to receive additional site fills, slabs-on-grade and/or pavements should be scarified to a depth of 6 inches, moisture conditioned, and compacted in accordance with the "Compaction" section below.

6.6 SUBGRADE STABILIZATION MEASURES

Soil subgrade and fill materials, especially soils with high fines contents such as clays and silty soils, can become unstable due to high moisture content, whether from high in-situ moisture contents or from winter rains. As the moisture content increases over the laboratory optimum, it

becomes more likely the materials will be subject to softening and yielding (pumping) from construction loading or become unworkable during placement and compaction.

As discussed in the “Subsurface” section in this report, the in-situ moisture contents are about 3 to 8 percent over the estimated laboratory optimum in the upper 10 feet of the soil profile. The contractor should anticipate drying the soils prior to reusing them as fill. In addition, repetitive rubber-tire loading will likely de-stabilize the soils.

There are several methods to address potential unstable soil conditions and facilitate fill placement and trench backfill. Some of the methods are briefly discussed below. Implementation of the appropriate stabilization measures should be evaluated on a case-by-case basis according to the project construction goals and the particular site conditions.

6.6.1 Scarification and Drying

The subgrade may be scarified to a depth of 12 to 18 inches and allowed to dry to near optimum conditions if sufficient dry weather is anticipated to allow sufficient drying. More than one round of scarification may be needed to break up the soil clods.

6.6.2 Removal and Replacement

As an alternative to scarification, the contractor may choose to over-excavate the unstable soils and replace them with dry on-site or import materials. A Cornerstone representative should be present to provide recommendations regarding the appropriate depth of over-excavation, whether a geosynthethic (stabilization fabric or geogrid) is recommended, and what materials are recommended for backfill.

6.6.3 Chemical Treatment

Where the unstable area exceeds about 5,000 to 10,000 square feet and/or site winterization is desired, chemical treatment with quicklime (CaO), kiln-dust, or cement may be more cost-effective than removal and replacement. Recommended chemical treatment depths will typically range from 12 to 18 inches depending on the magnitude of the instability.

6.7 MATERIAL FOR FILL

6.7.1 Re-Use of On-site Soils

On-site soils with an organic content less than 3 percent by weight may be reused as general fill. General fill should not have lumps, clods or cobble pieces larger than 6 inches in diameter; 85 percent of the fill should be smaller than 2½ inches in diameter. Minor amounts of oversize material (smaller than 12 inches in diameter) may be allowed provided the oversized pieces are not allowed to nest together and the compaction method will allow for loosely placed lifts not exceeding 12 inches.

6.7.2 Re-Use of On-Site Site Improvements

We anticipate that significant quantities of asphalt concrete (AC) grindings and aggregate base (AB) and Portland Cement Concrete (PCC) will be generated during site demolition. If the AC grindings are mixed with the underlying AB to meet Class 2 AB specifications, they may be reused within the new pavement and flatwork structural sections. AC/AB grindings may not be reused within the habitable building areas. Laboratory testing will be required to confirm the grindings meet project specifications. Due to the existing alligator cracking of the AC pavements, it is likely that the grinding operation will leave significant oversize chunks and won't meet the Class 2 AB gradation requirements but may meet Caltrans subbase requirements. Depending on the quantities of oversized material, the grindings may still be used within the structural section; however, the pavement design will need to be modified to account for the difference, typically resulting in the addition of about 1 inch to the structural section.

If the site area allows for on-site pulverization of PCC and provided the PCC is pulverized to meet the "Material for Fill" requirements of this report, it may be used as select fill within the hospitable building areas, excluding the capillary break layer; as typically pulverized PCC comes close to or meets Class 2 AB specifications, the recycled PCC may likely be used within the pavement structural sections. PCC grindings also make good winter construction access roads, similar to a cement-treated base (CTB) section.

6.7.3 Potential Import Sources

Imported and non-expansive material should be inorganic with a Plasticity Index (PI) of 15 or less, and not contain recycled asphalt concrete where it will be used within the habitable building areas. To prevent significant caving during trenching or foundation construction, imported material should have sufficient fines. Samples of potential import sources should be delivered to our office at least 10 days prior to the desired import start date. Information regarding the import source should be provided, such as any site geotechnical reports. If the material will be derived from an excavation rather than a stockpile, potholes will likely be required to collect samples from throughout the depth of the planned cut that will be imported. At a minimum, laboratory testing will include PI tests. Material data sheets for select fill materials (Class 2 aggregate base, ¾-inch crushed rock, quarry fines, etc.) listing current laboratory testing data (not older than 6 months from the import date) may be provided for our review without providing a sample. If current data is not available, specification testing will need to be completed prior to approval.

Environmental and soil corrosion characterization should also be considered by the project team prior to acceptance. Suitable environmental laboratory data to the planned import quantity should be provided to the project environmental consultant; additional laboratory testing may be required based on the project environmental consultant's review. The potential import source should also not be more corrosive than the on-site soils, based on pH, saturated resistivity, and soluble sulfate and chloride testing.

6.7.4 Non-Expansive Fill Using Lime Treatment

As discussed above, non-expansive fill should have a Plasticity Index (PI) of 15 or less. Due to the high clay content and PI of the on-site soil materials, it is not likely that sufficient quantities of non-expansive fill would be generated from cut materials. As an alternative to importing non-expansive fill, chemical treatment can be considered to create non-expansive fill. If this option is considered, additional laboratory tests should be performed during initial site grading to further evaluate the optimum percentage of chemical treatment required.

6.8 COMPACTION REQUIREMENTS

All fills, and subgrade areas where fill, slabs-on-grade, and pavements are planned, should be placed in loose lifts 8 inches thick or less and compacted in accordance with ASTM D1557 (latest version) requirements as shown in the table below. In general, clayey soils should be compacted with sheepsfoot equipment and sandy/gravelly soils with vibratory equipment; open-graded materials such as crushed rock should be placed in lifts no thicker than 18 inches consolidated in place with vibratory equipment. Each lift of fill and all subgrade should be firm and unyielding under construction equipment loading in addition to meeting the compaction requirements to be approved. The contractor (with input from a Cornerstone representative) should evaluate the in-situ moisture conditions, as the use of vibratory equipment on soils with high moistures can cause unstable conditions. General recommendations for soil stabilization are provided in the “Subgrade Stabilization Measures” section of this report. Where the soil’s PI is 20 or greater, the expansive soil criteria should be used.

Table 4: Compaction Requirements

Description	Material Description	Minimum Relative[1] Compaction (percent)	Moisture[2] Content (percent)
General Fill (within upper 5 feet)	On-Site Expansive Soils	87 – 92	>3
	Low Expansion Soils	90	>1
General Fill (below a depth of 5 feet)	On-Site Expansive Soils	95	>3
	Low Expansion Soils	95	>1
Basement Wall Backfill	Without Surface Improvements	90	>1
Basement Wall Backfill	With Surface Improvements	95[4]	>1
Trench Backfill	On-Site Expansive Soils	87 – 92	>3
Trench Backfill	Low Expansion Soils	90	>1
Trench Backfill (upper 6 inches of subgrade)	On-Site Low Expansion Soils	95	>1
Crushed Rock Fill	¾-inch Clean Crushed Rock	Consolidate In-Place	NA
Non-Expansive Fill	Imported Non-Expansive Fill	90	Optimum
Flatwork Subgrade	On-Site Expansive Soils	87 - 92	>3
Flatwork Subgrade	Low Expansion Soils	90	>1
Flatwork Aggregate Base	Class 2 Aggregate Base[3]	90	Optimum
Pavement Subgrade	On-Site Expansive Soils	87 - 92	>3
Pavement Subgrade	Low Expansion Soils	95	>1
Pavement Aggregate Base	Class 2 Aggregate Base[3]	95	Optimum
Asphalt Concrete	Asphalt Concrete	95 (Marshall)	NA

1 – Relative compaction based on maximum density determined by ASTM D1557 (latest version)
2 – Moisture content based on optimum moisture content determined by ASTM D1557 (latest version)
3 – Class 2 aggregate base shall conform to Caltrans Standard Specifications, latest edition, except that the relative compaction should be determined by ASTM D1557 (latest version)
4 – Using light-weight compaction or walls should be braced

6.8.1 Construction Moisture Conditioning

Expansive soils can undergo significant volume change when dried then wetted. The contractor should keep all exposed expansive soil subgrade (and also trench excavation side walls) moist until protected by overlying improvements (or trenches are backfilled). If expansive soils are allowed to dry out significantly, re-moisture conditioning may require several days of re-wetting (flooding is not recommended), or deep scarification, moisture conditioning, and re-compaction.

6.9 TRENCH BACKFILL

Utility lines constructed within public right-of-way should be trenched, bedded and shaded, and backfilled in accordance with the local or governing jurisdictional requirements. Utility lines in

private improvement areas should be constructed in accordance with the following requirements unless superseded by other governing requirements.

All utility lines should be bedded and shaded to at least 6 inches over the top of the lines with crushed rock (⅜-inch-diameter or greater) or well-graded sand and gravel materials conforming to the pipe manufacturer's requirements. Open-graded shading materials should be consolidated in place with vibratory equipment and well-graded materials should be compacted to at least 90 percent relative compaction with vibratory equipment prior to placing subsequent backfill materials.

General backfill over shading materials may consist of on-site native materials provided they meet the requirements in the "Material for Fill" section, and are moisture conditioned and compacted in accordance with the requirements in the "Compaction" section.

Where utility lines will cross perpendicular to strip footings, the footing should be deepened to encase the utility line, providing sleeves or flexible cushions to protect the pipes from anticipated foundation settlement, or the utility lines should be backfilled to the bottom of footing with sand-cement slurry or lean concrete. Where utility lines will parallel footings and will extend below the "foundation plane of influence," an imaginary 1:1 plane projected down from the bottom edge of the footing, either the footing will need to be deepened so that the pipe is above the foundation plane of influence or the utility trench will need to be backfilled with sand-cement slurry or lean concrete within the influence zone. Sand-cement slurry used within foundation influence zones should have a minimum compressive strength of 75 psi.

On expansive soils sites it is desirable to reduce the potential for water migration into building and pavement areas through the granular shading materials. We recommend that a plug of low-permeability clay soil, sand-cement slurry, or lean concrete be placed within trenches just outside where the trenches pass into building and pavement areas.

6.10 SITE DRAINAGE

Ponding should not be allowed adjacent to building foundations, slabs-on-grade, or pavements. Hardscape surfaces should slope at least 2 percent towards suitable discharge facilities; landscape areas should slope at least 3 percent towards suitable discharge facilities. Roof runoff should be directed away from building areas in closed conduits, to approved infiltration facilities, or on to hardscaped surfaces that drain to suitable facilities. Retention, detention or infiltration facilities should be spaced at least 10 feet from buildings, and preferably at least 5 feet from slabs-on-grade or pavements. However, if retention, detention or infiltration facilities are located within these zones, we recommend that these treatment facilities meet the requirements in the Storm Water Treatment Design Considerations section of this report.

6.11 LOW-IMPACT DEVELOPMENT (LID) IMPROVEMENTS

The Municipal Regional Permit (MRP) requires regulated projects to treat 100 percent of the amount of runoff identified in Provision C.3.d from a regulated project's drainage area with low impact development (LID) treatment measures onsite or at a joint stormwater treatment facility.

LID treatment measures are defined as rainwater harvesting and use, infiltration, evapotranspiration, or biotreatment. A biotreatment system may only be used if it is infeasible to implement harvesting and use, infiltration, or evapotranspiration at a project site.

Technical infeasibility of infiltration may result from site conditions that restrict the operability of infiltration measures and devices. Various factors affecting the feasibility of infiltration treatment may create an environmental risk, structural stability risk, or physically restrict infiltration. The presence of any of these limiting factors may render infiltration technically infeasible for a proposed project. To aid in determining if infiltration may be feasible at the site, we provide the following site information regarding factors that may aid in determining the feasibility of infiltration facilities at the site.

- The near-surface soils at the site are clayey, and categorized as Hydrologic Soil Group D, and is expected to have infiltration rates of less than 0.2 inches per hour. In our opinion, these clayey soils will significantly limit the infiltration of stormwater.

- Locally, seasonal high ground water was observed in the area at a depth of 12 feet, and therefore is expected to be within 10 feet of the base of the infiltration measure.

- In our opinion, infiltration locations within 10 feet of the buildings would create a geotechnical hazard.

6.11.1 Storm Water Treatment Design Considerations

If storm water treatment improvements, such as shallow bio-retention swales, basins or pervious pavements, are required as part of the site improvements to satisfy Storm Water Quality (C.3) requirements, we recommend the following items be considered for design and construction.

6.11.1.1 General Bioswale Design Guidelines

- If possible, avoid placing bioswales or basins within 10 feet of the building perimeter or within 5 feet of exterior flatwork or pavements. If bioswales must be constructed within these setbacks, the side(s) and bottom of the trench excavation should be lined with 10-mil visqueen to reduce water infiltration into the surrounding expansive clay.

- Bioswales constructed within 3 feet of proposed buildings may be within the foundation zone of influence for perimeter wall loads. Therefore, where bioswales will parallel foundations and will extend below the “foundation plane of influence,” an imaginary 1:1 plane projected down from the bottom edge of the foundation, the foundation will need to be deepened so that the bottom edge of the bioswale filter material is above the foundation plane of influence.

- The bottom of bioswale or detention areas should include a perforated drain placed at a low point, such as a shallow trench or sloped bottom, to reduce water infiltration into the

surrounding soils near structural improvements, and to address the low infiltration capacity of the on-site clay soils.

6.11.1.2 Bioswale Infiltration Material

- Gradation specifications for bioswale filter material, if required, should be specified on the grading and improvement plans.

- Compaction requirements for bioswale filter material in non-landscaped areas or in pervious pavement areas, if any, should be indicated on the plans and specifications to satisfy the anticipated use of the infiltration area.

- If required, infiltration (percolation) testing should be performed on representative samples of potential bioswale materials prior to construction to check for general conformance with the specified infiltration rates.

- It should be noted that multiple laboratory tests may be required to evaluate the properties of the bioswale materials, including percolation, landscape suitability and possibly environmental analytical testing depending on the source of the material. We recommend that the landscape architect provide input on the required landscape suitability tests if bioswales are to be planted.

- If bioswales are to be vegetated, the landscape architect should select planting materials that do not reduce or inhibit the water infiltration rate, such as covering the bioswale with grass sod containing a clayey soil base.

- If required by governing agencies, field infiltration testing should be specified on the grading and improvement plans. The appropriate infiltration test method, duration and frequency of testing should be specified in accordance with local requirements.

- Due to the relatively loose consistency and/or high organic content of many bioswale filter materials, long-term settlement of the bioswale medium should be anticipated. To reduce initial volume loss, bioswale filter material should be wetted in 12 inch lifts during placement to pre-consolidate the material. Mechanical compaction should not be allowed, unless specified on the grading and improvement plans, since this could significantly decrease the infiltration rate of the bioswale materials.

- It should be noted that the volume of bioswale filter material may decrease over time depending on the organic content of the material. Additional filter material may need to be added to bioswales after the initial exposure to winter rains and periodically over the life of the bioswale areas, as needed.

6.11.1.3 Bioswale Construction Adjacent to Pavements

If bio-infiltration swales or basins are considered adjacent to proposed parking lots or exterior flatwork, we recommend that mitigative measures be considered in the design and construction

of these facilities to reduce potential impacts to flatwork or pavements. Exterior flatwork, concrete curbs, and pavements located directly adjacent to bio-swales may be susceptible to settlement or lateral movement, depending on the configuration of the bioswale and the setback between the improvements and edge of the swale. To reduce the potential for distress to these improvements due to vertical or lateral movement, the following options should be considered by the project civil engineer:

- Improvements should be setback from the vertical edge of a bioswale such that there is at least 1 foot of horizontal distance between the edge of improvements and the top edge of the bioswale excavation for every 1 foot of vertical bioswale depth, or

- Concrete curbs for pavements, or lateral restraint for exterior flatwork, located directly adjacent to a vertical bioswale cut should be designed to resist lateral earth pressures in accordance with the recommendations in the "Retaining Walls" section of this report, or concrete curbs or edge restraint should be adequately keyed into the native soil or engineered to reduce the potential for rotation or lateral movement of the curbs.

6.12 LANDSCAPE CONSIDERATIONS

Since the near-surface soils are moderately expansive, we recommend reducing the amount of surface water infiltrating these soils near foundations and exterior slabs-on-grade. This can typically be achieved by:

- Using drip irrigation

- Avoiding open planting within 3 feet of the building perimeter or near the top of existing slopes

- Regulating the amount of water distributed to lawns or planter areas by using irrigation timers

- Selecting landscaping that requires little or no watering, especially near foundations.

We recommend that the landscape architect consider these items when developing landscaping plans.

SECTION 7: 2019 CBC SEISMIC DESIGN CRITERIA

We developed site-specific seismic design parameters in accordance with Chapter 16, Chapter 18 and Appendix J of the 2019 California Building Code (CBC) and Chapters 11, 12, 20, and 21 and Supplement No. 1 of ASCE 7-16.

7.1 SITE LOCATION AND PROVIDED DATA FOR 2019 CBC SEISMIC DESIGN

The project is located at latitude 37.706563° and longitude -122.144755°, which is based on Google Earth (WGS84) coordinates of the site at 14273 Washington Avenue in San Leandro,

California. We have assumed that a Seismic Importance Factor (I_e) of 1.00 has been assigned to the structure in accordance with Table 1.5-2 of ASCE 7-16 for structures classified as Risk Category II. The building period has not been provided by the project structural engineer.

7.2 SITE CLASSIFICATION – CHAPTER 20 OF ASCE 7-16

Code-based site classification and ground motion attenuation relationships are based on the time-weighted average shear wave velocity of the top approximately 100 feet (30 meters) of the soil profile (V_{S30}).

Our explorations generally encountered medium stiff to very stiff clays with varying amounts sand and interbedded layers of loose to medium dense silty sands to a depth of 100 feet, the maximum depth explored. Shear wave velocity (V_S) measurements were performed while advancing CPT-2, resulting in a time-averaged shear wave velocity for the top 30 meters (V_{S30}) of 241 meters per second. In accordance with Table 20.3-1 of ASCE 7-16, we recommend the site be classified as Soil Classification D, which is described as a "stiff soil" profile. Because we used site specific data from our explorations and laboratory testing, the site class should be considered as "determined" for the purposes of estimating the seismic design parameters from the code outlined below. Our site-specific ground motion hazard analysis considered a V_{S30} of 241 m/s (791ft/s).

7.3 CODE-BASED SEISMIC DESIGN PARAMETERS

Code-based spectral acceleration parameters were determined based on mapped acceleration response parameters adjusted for the specific site conditions. Mapped Risk-Adjusted Maximum Considered Earthquake (MCE_R) spectral acceleration parameters (S_S and S_1) were determined using the ATC Hazards by Location website (https://hazards.atcouncil.org).

The mapped acceleration parameters were adjusted for local site conditions based on the average soil conditions for the upper 100 feet (30 meters) of the soil profile. Code-based MCE_R spectral response acceleration parameters adjusted for site effects (S_{MS} and S_{M1}) and design spectral response acceleration parameters (S_{DS} and S_{D1}) are presented in Table 5.

In accordance with Section 11.4.8 of ASCE 7-16, structures on Site Class D sites with mapped 1-second period spectral acceleration (S_1) values greater than or equal to 0.2 require a site-specific ground motion hazard analysis be performed in accordance with Section 21.2 of ASCE 7-16. ***Design seismic parameters determined by performing a Ground Motion Hazard Analysis per Section 21.2 of ASCE 7-16 are presented in Table 8. Recommended values in Table 5 should not be used for design unless in the judgement of the structural engineer an exception can be taken in accordance with Section 11.4.8 of ASCE 7-16.*** Values summarized in Table 5 are only used to determine Seismic Design Category and comparison with minimum code requirements for further use in our ground motion hazard analysis (GMHA).

Table 5: 2019 CBC Site Categorization and Site Coefficients

Classification/Coefficient	Design Value
Site Class	D
Site Latitude	37.706563°
Site Longitude	-122.144755°
Risk Category	II**
Short Period Mapped Spectral Acceleration – S_S	2.094
1-second Period Mapped Spectral Acceleration – S_1	0.806
Short-Period Site Coefficient – F_a	1
Long-Period Site Coefficient – F_v	*null
Short Period MCE Spectral Response Acceleration Adjusted for Site Effects – S_{MS}	2.094
1-second Period MCE Spectral Response Acceleration Adjusted for Site Effects – S_{M1}	*null
Short Period, Design Earthquake Spectral Response Acceleration – S_{DS}	1.396
1-second Period, Design Earthquake Spectral Response Acceleration – S_{D1}	*null
Long-Period Transition – T_L	8
Site Coefficient – F_{PGA}	1.1
Site Modified Peak Ground Acceleration – PGA_M	0.968

*null – per section 11.4.8 of ASCE 7-16
**Assumed, to be confirmed by Structural Engineer

7.4 SITE-SPECIFIC GROUND MOTION HAZARD ANALYSIS

Following Section 11.4.8 of ASCE 7-16, we performed a ground motion hazards analysis (GMHA) in accordance with Chapter 21, Section 21.2 of ASCE 7. We evaluated both Probabilistic MCE_R Ground Motions in accordance with Method 1 and Deterministic MCE_R Ground Motions to generate our recommended design response spectrum for the project. Our analyses were performed using the USGS interface Unified Hazard Tool (UHT) based on the UCERF 3 Data Set, Building Seismic Safety Council (BSSC) Scenario Catalog 2014 event set (BSSC 2014), and the 2014 National Seismic Hazard Maps – Source Parameters (NSHMP deterministic event set). Additionally, we utilized the USGS program Response Spectra Plotter with combined models (Combined: WUS 2014 (4.1)).

Our analysis utilized the mean ground motions predicted by four of the Next Generation Attenuation West 2 (NGA-West 2) relationships: Boore-Atkinson (2013), Campbell-Bozorgnia (2013), Chiou-Youngs (2013), and Abrahamson-Silva (2013). Rotation factors (scale factors) were determined as specified in ASCE 7-16 Chapter 21, Section 21.2, to calculate the maximum rotated component of ground motions (ASCE, 2016).

7.4.1 Probabilistic MCE_R

We performed a probabilistic seismic hazard analysis (PSHA) in accordance with ASCE 7-16 Section 21.2.1. The probabilistic MCE acceleration response spectrum is defined as the 5 percent damped acceleration response spectrum having a 2 percent probability of exceedance in a 50-year period (2,475-year return period). The probabilistic MCE spectrum was multiplied by Risk Coefficients (C_R) to determine the probabilistic MCE_R. We used Risk Coefficients (C_{RS} and C_{R1}) of 0.917 and 0.905, respectively, based on ASCE 7-16 Section 21.2.1.1 - Method 1 and the ATC website. Risk coefficients for the various periods are presented in Table 6, Column 3.

The resulting probabilistic MCE_R for site class D are presented on Figure 5 (red line). Spectral ordinates are tabulated in Table 6, Column 6.

7.4.2 Deterministic MCE_R

We performed deterministic seismic hazard analyses in accordance with ASCE 7-16 Section 21.2.2 and ASCE 7-16 Supplement No. 1. The deterministic MCE_R acceleration response spectrum is calculated as the largest 84th percentile ground motion in the direction of maximum horizontal response for each period for characteristic earthquakes on all known active faults within the region. The largest deterministic ground motion resulted from a M_w 7.58 earthquake on the Hayward Fault (RC+HN+HS+HE segments), located at a distance of approximately 3.97 km from the site.

In accordance with Supplement No.1 of ASCE 7-16, when the largest spectral response acceleration of the resulting deterministic ground motion response spectrum is less than $1.5F_a$ then the largest 84th percentile rotated response spectrum (Table 6, Column 4) shall be scaled by a single factor such that the maximum response spectral acceleration equals $1.5F_a$. For Site Classes A, B, C and D, F_a is determined using Table 11.4.1 with the value of S_s taken as 1.5; for Site Class E, F_a shall be taken as 1.0. When the largest spectral response acceleration of the probabilistic ground motion response of 21.2.1 is less than $1.2F_a$, the deterministic ground motion response spectrum does not need to be calculated.

As the largest probabilistic spectral response acceleration was determined to be 2.881 which is greater than $1.2F_a$, where F_a is taken as 1.000 from Table 11.4-1 in ASCE 7-16 Supplement No.1, the 84th percentile rotated response spectrum was calculated as part of the deterministic analyses. The maximum spectral acceleration from the 84th percentile rotated response spectrum was then compared to $1.5F_a$ to determine if a scale factor needed to be applied. The deterministic MCE spectrum are tabulated in Table 6, Column 5. The deterministic MCE_R is presented graphically on Figure 5 (blue line).

7.4.3 Site-Specific MCE_R

The site-specific MCE_R is defined by ASCE 7-16 Section 21.2.3 as the lesser of the deterministic and probabilistic MCE_R's at each period. Spectral ordinates for the site-specific

MCE_R are tabulated in Table 6, Column 7 and shown graphically on Figure 5 (dashed black line).

Table 6: Site Class D: Development of Site-Specific MCE_R Spectrum

Period (seconds)	CBC General Spectrum (g)	Risk Coefficient	Det. 84th Percentile Rotated	Deterministic MCE_R (g)	Probabilistic MCE_R (g)	Site-Specific MCE_R (g)
0.000	0.558	0.917	1.104	1.104	1.065	1.065
0.050	0.776	0.917	1.130	1.130	1.396	1.130
0.080	0.885	0.917	1.347	1.347	1.562	1.347
0.100	0.994	0.917	1.622	1.622	1.728	1.622
0.150	1.396	0.917	2.135	2.135	2.250	2.135
0.200	1.396	0.917	2.177	2.177	2.293	2.177
0.250	1.396	0.916	2.330	2.330	2.498	2.330
0.300	1.396	0.916	2.422	2.422	2.703	2.422
0.400	1.396	0.914	2.551	2.551	2.791	2.551
0.401	1.396	0.913	2.576	2.576	2.881	2.576
0.500	1.396	0.909	2.249	2.249	2.577	2.249
0.750	1.396	0.906	2.038	2.038	2.341	2.038
1.000	1.343	0.905	2.001	2.001	2.299	2.001
2.000	0.672	0.905	1.134	1.134	1.320	1.134
3.000	0.448	0.905	0.769	0.769	0.884	0.769
4.000	0.336	0.905	0.539	0.539	0.624	0.539
5.000	0.269	0.905	0.412	0.412	0.473	0.412

7.4.4 Design Response Spectrum

The Design Response Spectrum (DRS) is defined in ASCE 7-16 Section 21.3 as:

- two-thirds of the site-specific MCE_R, but
- not less than 80% of the general design response spectrum

Spectral accelerations corresponding to two-thirds of the MCE_R are tabulated in Table 7, Column 2. Ordinates corresponding to 80% of the general Site Class D response spectrum are tabulated below in Table 7, Column 3. Ordinates of the site-specific DRS are tabulated in Table 7, Column 4. Development of the site-specific DRS is presented graphically on Figure 6 (dashed black line).

Table 7: Site Class D: Development of Site-Specific Design Response Spectrum

Period (seconds)	2/3 Site-Specific MCE_R (g)	80% CBC Site Class C Spectrum (g)	Design Response Spectrum (g)
0.000	0.710	0.447	0.710
0.050	0.753	0.621	0.753
0.080	0.898	0.708	0.898
0.100	1.081	0.795	1.081
0.150	1.424	1.117	1.424
0.200	1.451	1.117	1.451
0.250	1.553	1.117	1.553
0.300	1.615	1.117	1.615
0.400	1.700	1.117	1.700
0.401	1.717	1.117	1.717
0.500	1.499	1.117	1.499
0.750	1.359	1.117	1.359
1.000	1.334	1.075	1.334
2.000	0.756	0.537	0.756
3.000	0.512	0.358	0.512
4.000	0.359	0.269	0.359
5.000	0.275	0.215	0.275

7.5 DESIGN ACCELERATION PARAMETERS

Design acceleration parameters (S_{DS} and S_{D1}) were determined in accordance with Section 21.4 of ASCE 7-16. S_{DS} is defined as the design spectral acceleration at 90% of the maximum spectral acceleration, S_a, obtained from the site-specific spectrum, at any period within the range from 0.2 to 5 seconds, inclusive. S_{D1} is defined as the maximum value of the product, TS_a, for periods from 1 to 2 seconds for sites with vs,30 > 1,200 ft/s ($v_{s,30}$ > 365.76 m/s) and for periods from 1 to 5 seconds for sites with vs,30 ≤ 1,200 ft/s ($v_{s,30}$ ≤365.76 m/s).
Site-specific MCE_R spectral response acceleration parameters (S_{MS} and S_{M1}) are calculated as:

- 1.5 times the S_{DS} and S_{D1} values, respectively, but
- not less than 80% of the code-based values presented in Table 5

Recommended design acceleration parameters are summarized in Table 8.

When using the Equivalent Lateral Force Procedure, ASCE 7-16 Section 21.4 allows using the spectral acceleration at any period (T) in lieu of S_{D1}/T in Eq. 12.8-3 and $S_{D1}T_L/T_2$ in Eq. 12.8-4.

The site-specific spectral acceleration at any period may be calculated by interpolation of the spectral ordinates in Table 7, Column 4.

Table 8: Site Class D: Site-Specific Design Acceleration Parameters

Parameter	Value
S_{DS}	1.546
S_{D1}	1.537
S_{MS}	2.318
S_{M1}	2.306

7.6 SITE-SPECIFIC MCE_G PEAK GROUND ACCELERATION

7.6.1 Site Class D: Site-Specific MCE_G Peak Ground Acceleration

We calculated the Site-Specific MCE_G Peak Ground Acceleration (PGA_M) in accordance with ASCE 7-16 Section 21.5. The Site-Specific PGA_M is calculated as the lesser of probabilistic and deterministic geometric mean PGA. The 2% in 50-year probabilistic geometric mean PGA is 1.055g. The deterministic PGA is considered the greater of the largest 84th percentile deterministic geometric mean PGA (1.004) or one-half of the tabulated F_{PGA} value from ASCE 7-16 Table 11.8.1 with the value of PGA taken as 0.5g. For the site, F_{PGA} is 1.100 and one-half of the F_{PGA} is 0.55g; therefore, the deterministic PGA is 1.004g. Additionally, the Site-Specific PGA_M may not be less than 80% of the mapped PGA_M determined from ASCE 7-16 Equation 11.8-1. The mapped PGA_M for the site is 0.968g; 80% of PGA_M is 0.774g.

Based on the above, the recommended Site-Specific PGA_M for the site is 1.004g.

SECTION 8: FOUNDATIONS

8.1 SUMMARY OF RECOMMENDATIONS

In our opinion, the proposed structures may be supported on shallow foundations provided the recommendations in the “Earthwork” section and the sections below are followed.

8.2 SHALLOW FOUNDATIONS

8.2.1 Spread Footings

Spread footings should bear on natural, undisturbed soil or engineered fill, be at least 15 inches wide, and extend at least 18 inches below the lowest adjacent grade. Lowest adjacent grade is defined as the deeper of the following: 1) bottom of the adjacent interior slab-on-grade, or 2) finished exterior grade, excluding landscaping topsoil. The deeper footing embedment is due to

the presence of highly expansive soils and is intended to embed the footing below the zone of significant seasonal moisture fluctuation, reducing the potential for differential movement.

Footings constructed to the above dimensions and in accordance with the "Earthwork" recommendations of this report are capable of supporting maximum allowable bearing pressures of 2,000 psf for dead loads, 3,000 psf for combined dead plus live loads, and 4,000 psf for all loads including wind and seismic. These pressures are based on factors of safety of 3.0, 2.0, and 1.5 applied to the ultimate bearing pressure for dead, dead plus live, and all loads, respectively. These pressures are net values; the weight of the footing may be neglected for the portion of the footing extending below grade (typically, the full footing depth). Top and bottom mats of reinforcing steel should be included in continuous footings to help span irregularities and differential settlement.

8.2.2 Footing Settlement

Structural loads were not provided to us at the time this report was prepared; therefore, we assumed the typical loading in the following table.

Table 9: Assumed Structural Loading

Foundation Area	Range of Assumed Loads
Interior Isolated Column Footing	100 to 150 kips
Exterior Isolated Column Footing	50 to 75 kips
Perimeter Strip Footing	5 to 10 kips per lineal foot

Based on the above loading and the allowable bearing pressures presented above, we estimate that the total static footing settlement will be on the order of ½ inch, with ⅓ inch of post-construction differential settlement between adjacent foundation elements. In addition, total seismic settlements are estimated to range up to about ⅓ inch. We estimate total static and seismic footing settlement will be on the order of ¾ inch, resulting in total estimated differential settlement up to ½ inch between foundation elements, assumed to be on the order of 50 to 60 feet. As our footing loads were assumed, we recommend we be retained to review the final footing layout and loading, and verify the settlement estimates above.

8.2.3 Lateral Loading

Lateral loads may be resisted by friction between the bottom of footing and the supporting subgrade, and also by passive pressures generated against footing sidewalls. An ultimate frictional resistance of 0.40 applied to the footing dead load, and an ultimate passive pressure based on an equivalent fluid pressure of 400 pcf may be used in design. The structural engineer should apply an appropriate factor of safety (such as 1.5) to the ultimate values above. Where footings are adjacent to landscape areas without hardscape, the upper 18 inches of soil should be neglected when determining passive pressure capacity.

8.2.4 Spread Footing Construction Considerations

Where utility lines will cross perpendicular to strip footings, the footing should be deepened to encase the utility line, providing sleeves or flexible cushions to protect the pipes from anticipated foundation settlement, or the utility lines should be backfilled to the bottom of footing with sand-cement slurry or lean concrete. Where utility lines will parallel footings and will extend below the "foundation plane of influence," an imaginary 1:1 plane projected down from the bottom edge of the footing, either the footing will need to be deepened so that the pipe is above the foundation plane of influence or the utility trench will need to be backfilled with sand-cement slurry or lean concrete within the influence zone. Sand-cement slurry used within foundation influence zones should have a minimum compressive strength of 75 psi.

Footing excavations should be filled as soon as possible or be kept moist until concrete placement by regular sprinkling to prevent desiccation. A Cornerstone representative should observe all footing excavations prior to placing reinforcing steel and concrete. If there is a significant schedule delay between our initial observation and concrete placement, we may need to re-observe the excavations.

SECTION 9: CONCRETE SLABS AND PEDESTRIAN PAVEMENTS

9.1 OFFICE SLABS-ON-GRADE

As the Plasticity Index (PI) of the surficial soils ranges up to 24, the proposed slabs-on-grade should be supported on at least 12 inches of non-expansive fill (NEF) to reduce the potential for slab damage due to soil heave. The NEF layer should be constructed over subgrade prepared in accordance with the recommendations in the "Earthwork" section of this report. If moisture-sensitive floor coverings are planned, the recommendations in the "Interior Slabs Moisture Protection Considerations" section below may be incorporated in the project design if desired. If significant time elapses between initial subgrade preparation and NEF construction, the subgrade should be proof rolled to confirm subgrade stability, and if the soil has been allowed to dry out, the subgrade should be re-moisture conditioned in accordance with the "Compaction" section of this report.

The structural engineer should determine the appropriate slab reinforcement for the loading requirements and considering the expansion potential of the underlying soils. Consideration should be given to limiting the control joint spacing to a maximum of about 2 feet in each direction for each inch of concrete thickness.

9.2 WAREHOUSE SLABS-ON-GRADE

Warehouse slabs-on-grade should be at least 6 inches thick, should have a minimum compressive strength of 3,500 psi, and should be designed for the specific warehouse loading (i.e. Forklifts, rack loads, etc.). At this time, rack loading information, etc. was not available. The slab should also be designed to accommodate potential slab settlement beneath heavily loaded slab areas. We recommend we be retained to review the final heavily loaded (i.e. rack loading) layout and loading, and provide estimated settlements.

The warehouse slab should be supported on at least 6 inches of non-expansive, crushed granular base having an R-value of at least 50 and no more than 10 percent passing the No. 200 sieve, such as Class 2 aggregate base. Due to the high plasticity of the surficial soils, an additional 6 inches of non-expansive fill (NEF) should underlie the upper granular base. At your option, the recommended crushed granular base material can also be increased for the full non-expansive fill depth of 12 inches. All base and sub-base materials should be placed and compacted in accordance with the "Compaction" section of this report. If there will be areas within the warehouse that are moisture sensitive, such as equipment and elevator rooms, a vapor barrier may be placed over the upper granular base prior to slab construction. Please refer to the recommendations in the "Interior Slabs Moisture Protection Considerations" section for vapor barrier construction. Consideration should be given to limiting the control joint spacing to a maximum of about 2 feet in each direction for each inch of concrete thickness.

9.3 INTERIOR SLABS MOISTURE PROTECTION CONSIDERATIONS

The following general guidelines for concrete slab-on-grade construction where floor coverings are planned are presented for the consideration by the developer, design team, and contractor. These guidelines are based on information obtained from a variety of sources, including the American Concrete Institute (ACI) and are intended to reduce the potential for moisture-related problems causing floor covering failures, and may be supplemented as necessary based on project-specific requirements. The application of these guidelines or not will not affect the geotechnical aspects of the slab-on-grade performance.

- Place a minimum 10-mil vapor retarder conforming to ASTM E 1745, Class C requirements or better directly below the concrete slab; the vapor retarder should extend to the slab edges and be sealed at all seams and penetrations in accordance with manufacturer's recommendations and ASTM E 1643 requirements. A 4-inch-thick capillary break, consisting of crushed rock should be placed below the vapor retarder and consolidated in place with vibratory equipment. The mineral aggregate shall be of such size that the percentage composition by dry weight as determined by laboratory sieves will conform to the following gradation:

Sieve Size	Percentage Passing Sieve
1"	100
¾"	90 – 100
No. 4	0 - 10

  The capillary break rock may be considered as the upper 4 inches of the non-expansive fill previously recommended.

- The concrete water:cement ratio should be 0.45 or less. Mid-range plasticizers may be used to increase concrete workability and facilitate pumping and placement.

- Water should not be added after initial batching unless the slump is less than specified and/or the resulting water:cement ratio will not exceed 0.45.

- Polishing the concrete surface with metal trowels is not recommended.
- Where floor coverings are planned, all concrete surfaces should be properly cured.
- Water vapor emission levels and concrete pH should be determined in accordance with ASTM F1869-98 and F710-98 requirements and evaluated against the floor covering manufacturer's requirements prior to installation.

9.4 EXTERIOR FLATWORK

Exterior concrete flatwork subject to pedestrian loading only should be at least 4 inches thick and supported on at least 4 inches of Class 2 aggregate base overlying 4 inches of non-expansive fill overlying subgrade prepared in accordance with the "Earthwork" recommendations of this report. Flatwork that will be subject to heavier or frequent vehicular loading should be designed in accordance with the recommendations in the "Vehicular Pavements" section below. To help reduce the potential for uncontrolled shrinkage cracking, adequate expansion and control joints should be included. Consideration should be given to limiting the control joint spacing to a maximum of about 2 feet in each direction for each inch of concrete thickness. Flatwork should be isolated from adjacent foundations or retaining walls.

SECTION 10: VEHICULAR PAVEMENTS

10.1 ASPHALT CONCRETE

The following asphalt concrete pavement recommendations tabulated below are based on the Procedure 608 of the Caltrans Highway Design Manual, estimated traffic indices for various pavement-loading conditions, and a design R-value of 5. The design R-value was chosen based on engineering judgement considering the proposed pavement areas and potential variable surface conditions following site grading. We have also included pavement structural section alternatives for chemical-treated (lime/cement) subgrade soil with an estimated design R-value of 50 for your consideration. If it is desired to chemical treat, we recommend that the upper 12 inches of subgrade soil be treated. Additional testing will need to be performed to determine the appropriate lime/cement percentage to be mixed with the subgrade soil.

Table 10: Asphalt Concrete Pavement Recommendations (Untreated Subgrade)

Design Traffic Index (TI)	Asphalt Concrete (inches)	Class 2 Aggregate Base* (inches)	Total Pavement Section Thickness (inches)
4.0	2.5	7.5	10.0
4.5	2.5	9.5	12.0
5.0	3.0	10.0	13.0
5.5	3.0	12.0	15.0
6.0	3.5	13.0	16.5
6.5	4.0	14.0	18.0
7.0	4.0	16.0	20.0
7.5	4.5	17.0	21.5
8.0	5.0	18.0	23.0
8.5	5.0	20.0	25.0
9.0	5.5	21.0	26.5
9.5	6.0	22.0	28.0
10.0	6.5	23.0	29.5
10.5	6.5	25.0	31.5
11.0	7.0	26.0	33.0

*Caltrans Class 2 aggregate base; minimum R-value of 78.

Table 11: Asphalt Concrete Pavement Recommendations (Chemical-Treated Subgrade)

Design Traffic Index (TI)	Asphalt Concrete (inches)	Class 2 Aggregate Base* (inches)	Total Pavement Section Thickness (inches)
4.0/4.5	2.5	4.0	6.5
5.0/5.5	3.0	4.0	7.0
6.0	3.5	4.0	7.5
6.5	4.0	4.0	8.0
7.0	4.0	4.5	8.5
7.5	4.5	5.0	9.5
8.0	5.0	5.0	10.0
8.5	5.0	6.5	11.5
9.0	5.5	6.5	12.0
9.5	6.0	7.0	13.0
10.0	6.5	7.5	14.0
10.5	6.5	8.5	15.0
11.0	7.0	8.5	15.5

*Caltrans Class 2 aggregate base with minimum R-value of 78; minimum chemical-treated subgrade R-value assumed to be 5.

Frequently, the full asphalt concrete section is not constructed prior to construction traffic loading. This can result in significant loss of asphalt concrete layer life, rutting, or other pavement failures. To improve the pavement life and reduce the potential for pavement distress through construction, we recommend the full design asphalt concrete section be constructed prior to construction traffic loading. Alternatively, a higher traffic index may be chosen for the areas where construction traffic will be using the pavements.

Asphalt concrete pavements constructed on expansive subgrade where the adjacent areas will not be irrigated for several months after the pavements are constructed may experience longitudinal cracking parallel to the pavement edge. These cracks typically form within a few feet of the pavement edge and are due to seasonal wetting and drying of the adjacent soil. The cracking may also occur during construction where the adjacent grade is allowed to significantly dry during the summer, pulling moisture out of the pavement subgrade. Any cracks that form should be sealed with bituminous sealant prior to the start of winter rains. One alternative to reduce the potential for this type of cracking is to install a moisture barrier at least 24 inches deep behind the pavement curb.

10.2 PORTLAND CEMENT CONCRETE

The exterior Portland Cement Concrete (PCC) pavement recommendations tabulated below are based on methods presented in the Portland Cement Association (PCA) design manual (PCA, 1984). We have provided a few pavement alternatives as an anticipated Average Daily Truck

Traffic (ADTT) was not provided. An allowable ADTT should be chosen that is greater than what is expected for the development. PCC alternatives for chemical-treated (lime/cement) subgrade are also provided in the tables below.

Table 12: PCC Pavement Recommendations (Untreated Subgrade)

Allowable ADTT	Minimum PCC Thickness (inches)
13	5.5
130	6.0

Table 13: PCC Pavement Recommendations (Chemical-Treated Subgrade)

Allowable ADTT	Minimum PCC Thickness (inches)
13	5.0
150	5.5

The PCC thicknesses above are based on a concrete compressive strength of at least 3,500 psi, supporting the PCC on at least 6 inches of Class 2 aggregate base compacted as recommended in the "Earthwork" section, and laterally restraining the PCC with curbs or concrete shoulders. Adequate expansion and control joints should be included. Consideration should be given to limiting the control joint spacing to a maximum of about 2 feet in each direction for each inch of concrete thickness. Due to the expansive surficial soils present, we recommend that the construction and expansion joints be dowelled.

10.2.1 Stress Pads for Trash Enclosures

Pads where trash containers will be stored, and where garbage trucks will park while emptying trash containers, should be constructed on Portland Cement Concrete. We recommend that the trash enclosure pads and stress (landing) pads where garbage trucks will store, pick up, and empty trash be increased to a minimum PCC thickness of 7 inches. The compressive strength, underlayment, and construction details should be consistent with the above recommendations for PCC pavements.

10.3 PAVEMENT CUTOFF

Surface water penetration into the pavement section can significantly reduce the pavement life, due to the native expansive clays. While quantifying the life reduction is difficult, a normal 20-year pavement design could be reduced to less than 10 years; therefore, increased long-term maintenance may be required.

It would be beneficial to include a pavement cut-off, such as deepened curbs, redwood-headers, or “Deep-Root Moisture Barriers” that are keyed at least 4 inches into the pavement subgrade. This will help limit the additional long-term maintenance.

SECTION 11: RETAINING WALLS

11.1 STATIC LATERAL EARTH PRESSURES

The structural design of any site retaining wall should include resistance to lateral earth pressures that develop from the soil behind the wall, any undrained water pressure, and surcharge loads acting behind the wall. Provided a drainage system is constructed behind the wall to prevent the build-up of hydrostatic pressures as discussed in the section below, we recommend that the walls with level backfill be designed for the following pressures in the table below. Due to the presence of expansive soils, cantilever retaining walls backfilled with native soil should be designed as restrained. If granular backfill materials are used, then the unrestrained values in the table can be used.

Table 14: Recommended Lateral Earth Pressures

Wall Condition	Lateral Earth Pressure*	Additional Surcharge Loads
Unrestrained – Cantilever Wall	45 pcf	⅓ of vertical loads at top of wall
Restrained – Braced Wall	45 pcf + 8H** psf	½ of vertical loads at top of wall

* Lateral earth pressures are based on an equivalent fluid pressure for level backfill conditions
** H is the distance in feet between the bottom of footing and top of retained soil

If adequate drainage cannot be provided behind the wall, an additional equivalent fluid pressure of 40 pcf should be added to the values above for both restrained and unrestrained walls for the portion of the wall that will not have drainage. Damp proofing or waterproofing of the walls may be considered where moisture penetration and/or efflorescence are not desired.

11.2 SEISMIC LATERAL EARTH PRESSURES

The 2019 CBC states that lateral pressures from earthquakes should be considered in the design of basements and retaining walls. At this time, we are not aware of any retaining walls 6 feet or greater in height and have not provided seismic earth pressures with this report. If retaining walls greater than 6 feet in height are proposed, we should be retained to provide seismic earth pressures, if warranted. In our opinion, seismic earth pressures are not warranted for design of minor landscaping and loading dock walls (i.e. walls 6 feet or less in height).

11.3 WALL DRAINAGE

Adequate drainage should be provided by a subdrain system behind all walls. This system should consist of a 4-inch minimum diameter perforated pipe placed near the base of the wall (perforations placed downward). The pipe should be bedded and backfilled with Class 2 Permeable Material per Caltrans Standard Specifications, latest edition. The permeable backfill

should extend at least 12 inches out from the wall and to within 2 feet of outside finished grade. Alternatively, ½-inch to ¾-inch crushed rock may be used in place of the Class 2 Permeable Material provided the crushed rock and pipe are enclosed in filter fabric, such as Mirafi 140N or approved equivalent. The upper 2 feet of wall backfill should consist of compacted on-site soil. The subdrain outlet should be connected to a free-draining outlet or sump.

Miradrain, Geotech Drainage Panels, or equivalent drainage matting can be used for wall drainage as an alternative to the Class 2 Permeable Material or drain rock backfill. Horizontal strip drains connecting to the vertical drainage matting may be used in lieu of the perforated pipe and crushed rock section. The vertical drainage panel should be connected to the perforated pipe or horizontal drainage strip at the base of the wall, or to some other closed or through-wall system such as the TotalDrain system from AmerDrain. Sections of horizontal drainage strips should be connected with either the manufacturer's connector pieces or by pulling back the filter fabric, overlapping the panel dimples, and replacing the filter fabric over the connection. At corners, a corner guard, corner connection insert, or a section of crushed rock covered with filter fabric must be used to maintain the drainage path.

Drainage panels should terminate 18 to 24 inches from final exterior grade. The Miradrain panel filter fabric should be extended over the top of and behind the panel to protect it from intrusion of the adjacent soil.

11.4 BACKFILL

Where surface improvements will be located over the retaining wall backfill, backfill placed behind the walls with a PI less than 20 should be compacted to at least 95 percent relative compaction using light compaction equipment. If the soil's PI is 20 or greater, expansive soil criteria should be used as discussed in the "Compaction" section of this report. Where no surface improvements are planned, backfill should be compacted to at least 90 percent for soils with a PI less than 20. Expansive soil criteria should be followed for soils with a PI of 20 or greater. If heavy compaction equipment is used, the walls should be temporarily braced.

11.5 FOUNDATIONS

Retaining walls may be supported on a continuous spread footing designed in accordance with the recommendations presented in the "Foundations" section of this report.

SECTION 12: LIMITATIONS

This report, an instrument of professional service, has been prepared for the sole use of First Industrial Realty Trust, Inc. specifically to support the design of the Washington Industrial Facility project in San Leandro, California. The opinions, conclusions, and recommendations presented in this report have been formulated in accordance with accepted geotechnical engineering practices that exist in Northern California at the time this report was prepared. No warranty, expressed or implied, is made or should be inferred.

Recommendations in this report are based upon the soil and ground water conditions encountered during our subsurface exploration. If variations or unsuitable conditions are encountered during construction, Cornerstone must be contacted to provide supplemental recommendations, as needed.

First Industrial Realty Trust, Inc. may have provided Cornerstone with plans, reports and other documents prepared by others. First Industrial Realty Trust, Inc. understands that Cornerstone reviewed and relied on the information presented in these documents and cannot be responsible for their accuracy.

Cornerstone prepared this report with the understanding that it is the responsibility of the owner or his representatives to see that the recommendations contained in this report are presented to other members of the design team and incorporated into the project plans and specifications, and that appropriate actions are taken to implement the geotechnical recommendations during construction.

Conclusions and recommendations presented in this report are valid as of the present time for the development as currently planned. Changes in the condition of the property or adjacent properties may occur with the passage of time, whether by natural processes or the acts of other persons. In addition, changes in applicable or appropriate standards may occur through legislation or the broadening of knowledge. Therefore, the conclusions and recommendations presented in this report may be invalidated, wholly or in part, by changes beyond Cornerstone's control. This report should be reviewed by Cornerstone after a period of three (3) years has elapsed from the date of this report. In addition, if the current project design is changed, then Cornerstone must review the proposed changes and provide supplemental recommendations, as needed.

An electronic transmission of this report may also have been issued. While Cornerstone has taken precautions to produce a complete and secure electronic transmission, please check the electronic transmission against the hard copy version for conformity.

Recommendations provided in this report are based on the assumption that Cornerstone will be retained to provide observation and testing services during construction to confirm that conditions are similar to that assumed for design, and to form an opinion as to whether the work has been performed in accordance with the project plans and specifications. If we are not retained for these services, Cornerstone cannot assume any responsibility for any potential claims that may arise during or after construction as a result of misuse or misinterpretation of Cornerstone's report by others. Furthermore, Cornerstone will cease to be the Geotechnical-Engineer-of-Record if we are not retained for these services.

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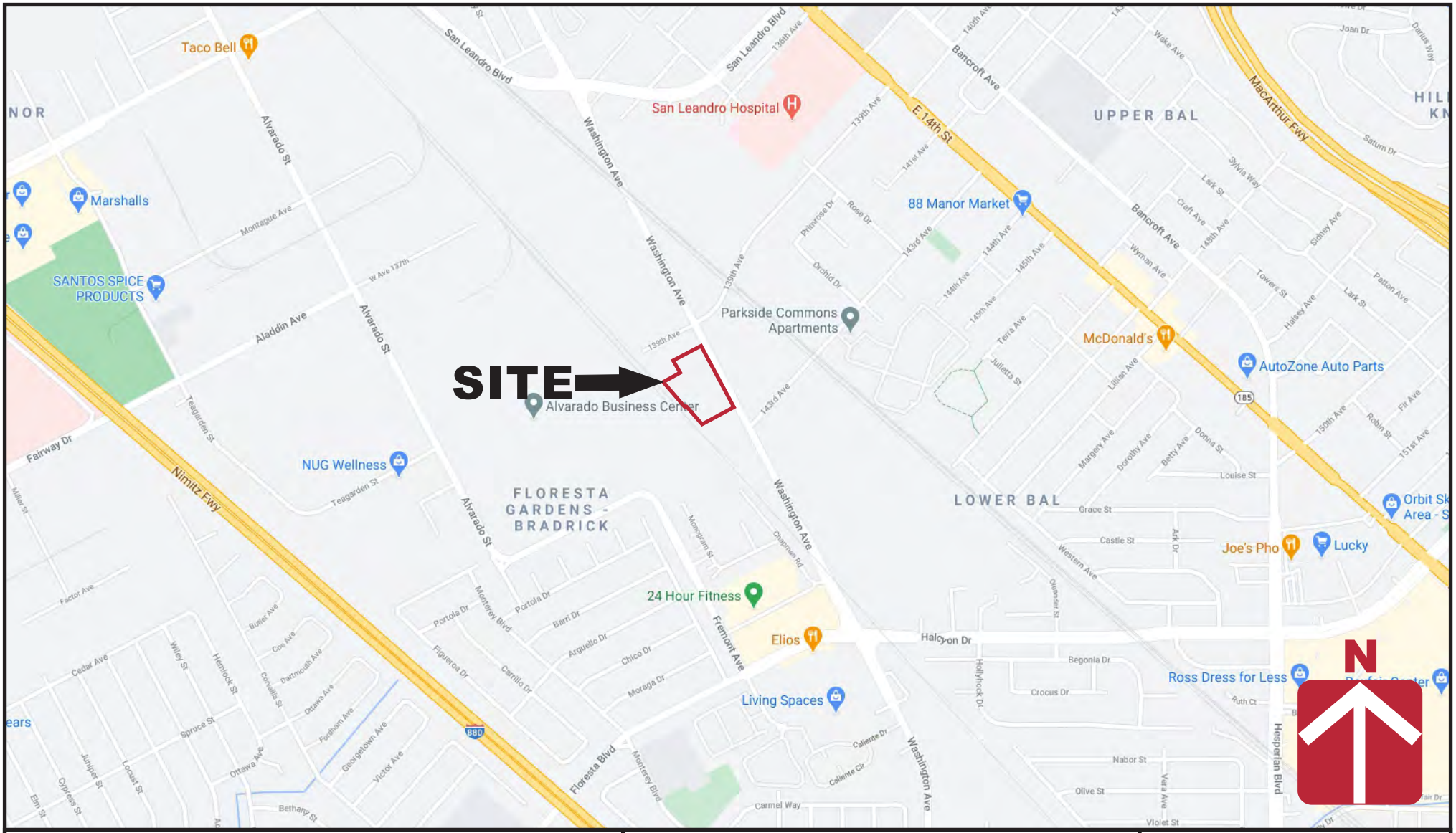

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Vicinity Map

Washington Industrial Facility
14273 Washington Avenue
San Leandro, CA

Project Number	1262-2-1
Figure Number	Figure 1
Date	March 2021
Drawn By	RRN

WASHINGTON AVENUE

Approximate Area of USTs Removal

26'

20'

EB-1

CPT-1

CPT-4

EB-3

350'

BUILDING AREA
52,500 S.F.

150'

15 DOCK DOORS

26'

32'

EB-2

CPT-2

CPT-3

130'

115'

Approximate Site Boundary

Railroad tracks

N

Base by Google Earth, dated 06/20/2019
Overlay by HPA Architecture, Conceptual Site Plan - Scheme 2, dated 12/25/2020

Legend

Approximate location of exploratory boring (EB)

Approximate location of cone penetration test (CPT)

0 50 100

APPROXIMATE SCALE (FEET)

Project Number	1262-2-1
Figure Number	Figure 2
Date	March 2021
Drawn By	RRN

Site Plan

Washington Industrial Facility
14273 Washington Avenue
San Leandro, CA

CORNERSTONE EARTH GROUP

Geologic Time Scale			Years Before Present (Approx.)	Fault Symbol	Recency of Movement	DESCRIPTION	
						ON LAND	OFFSHORE
Quaternary	Late Quaternary	Historic	200			Displacement during historic time (e.g. San Andreas fault 1906). Includes areas of known fault creep.	
		Holocene	11,700			Displacement during Holocene time.	Fault offsets seafloor sediments or strata of Holocene age.
	Early Quaternary	Pleistocene	700,000			Faults showing evidence of displacement during late Quaternary time.	Fault cuts strata of Late Pleistocene age.
			1,600,000'			Undivided Quaternary faults - most faults in this category show evidence of displacement during the last 1,600,000 years; possible exceptions are faults which displace rocks of undifferentiated Pilo-Pleistocene age.	Fault cuts strata of Quaternary age.
Pre-Quaternary			4.5 billion (Age of Earth)			Faults without recognized Quaternary displacement or showing evidence of no displacement during Quaternary time. Not necessarily inactive.	Fault cuts strata of Pliocene or older age.

Base by California Geological Survey - 2010 Fault Activity Map of California (Jennings and Bryant, 2010)

N

0 5 10

APPROXIMATE SCALE (MILES)

Project Number	1262-2-1
Figure Number	Figure 3
Date	March 2021
Drawn By	RRN

Regional Fault Map

Washington Industrial Facility
14273 Washington Avenue
San Leandro, CA

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FIGURE 4A

CPT NO. 1

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PROJECT/CPT DATA

Project Title	Washington Industrial Facility
Project No.	1262-2-1
Project Manager	RSM

SEISMIC PARAMETERS

Controlling Fault	Hayward	
Earthquake Magnitude (Mw)	7.58	
PGA (Amax)	1	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	17.6
Design Water Depth (feet)	12
Ave. Unit Weight Above GW (pcf)	120
Ave. Unit Weight Below GW (pcf)	125

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM	12	FEET
	0.01	(Inches)
LIQUEFACTION SETTLEMENT FROM	50	FEET
	0.28	(Inches)
TOTAL SEISMIC SETTLEMENT	**0.3**	**INCHES**

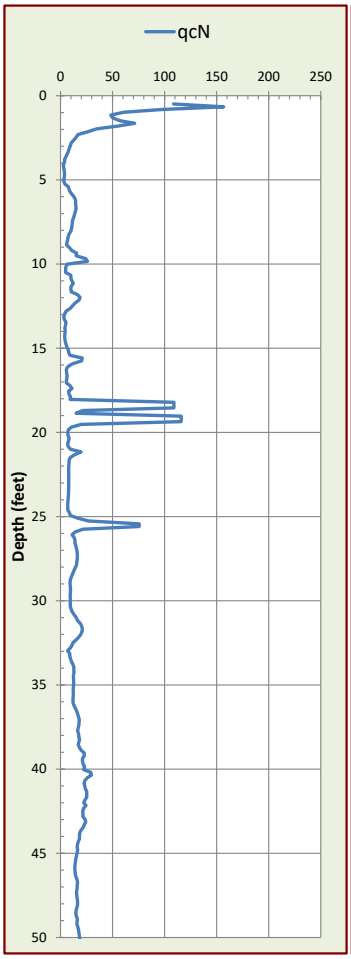
POTENTIAL LATERAL DISPLACEMENT

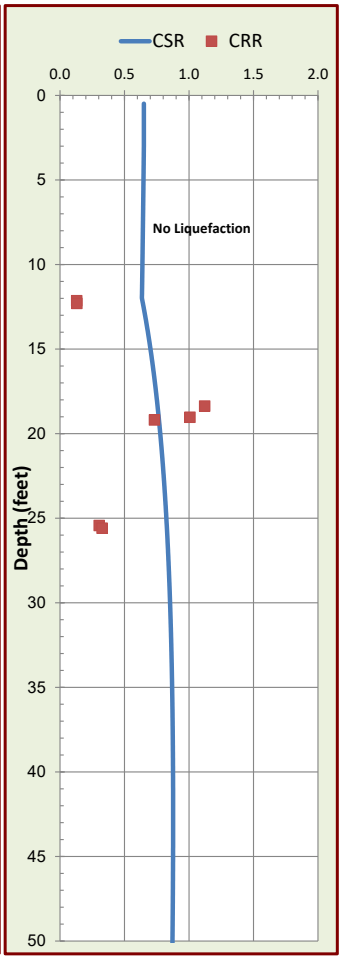
LDI[2]	0.00	L/H	1200.0
LDI[1] Corrected for Distance	0.00	(4 < L/H < 40)	

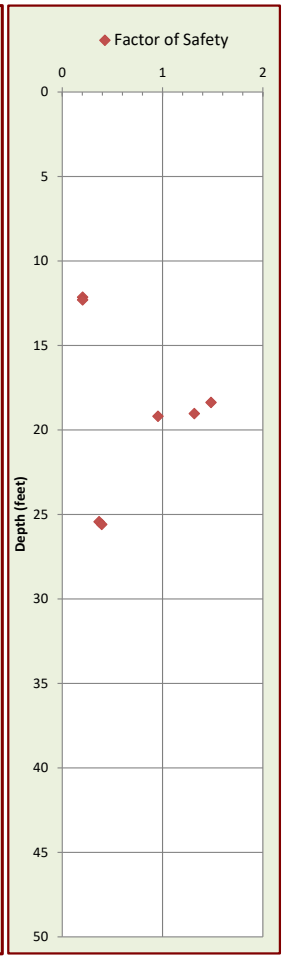
EXPECTED RANGE OF DISPLACEMENT

0.0 to 0.0 feet

[1]Not Valid for L/H Values < 4 and > 40.
[2]LDI Values Only Summed to 2H Below Grade.







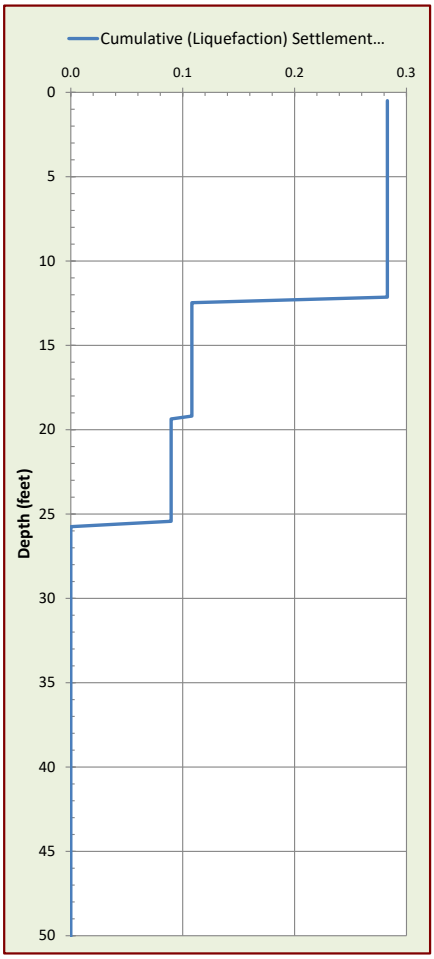


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FIGURE 4B

CPT NO. 2

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PROJECT/CPT DATA

Project Title	Washington Industrial Facility
Project No.	1262-2-1
Project Manager	RSM

SEISMIC PARAMETERS

Controlling Fault	Hayward	
Earthquake Magnitude (Mw)	7.58	
PGA (Amax)	1	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	17.6
Design Water Depth (feet)	12
Ave. Unit Weight Above GW (pcf)	120
Ave. Unit Weight Below GW (pcf)	125

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM	12	FEET
	0.03	(Inches)
LIQUEFACTION SETTLEMENT FROM	50	FEET
	0.24	(Inches)
TOTAL SEISMIC SETTLEMENT	**0.3**	**INCHES**

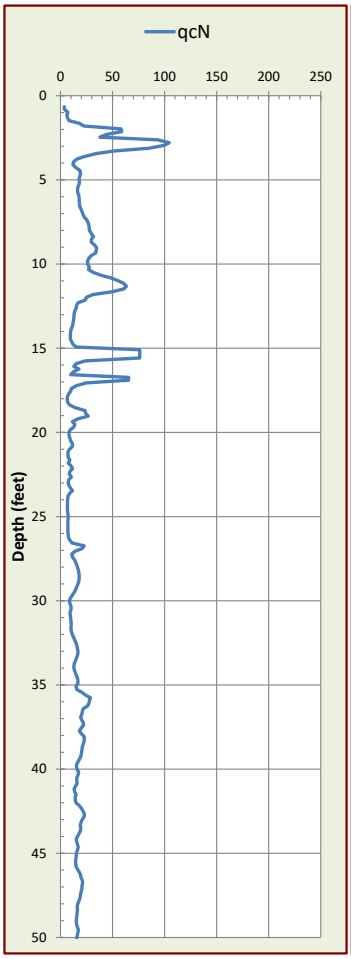
POTENTIAL LATERAL DISPLACEMENT

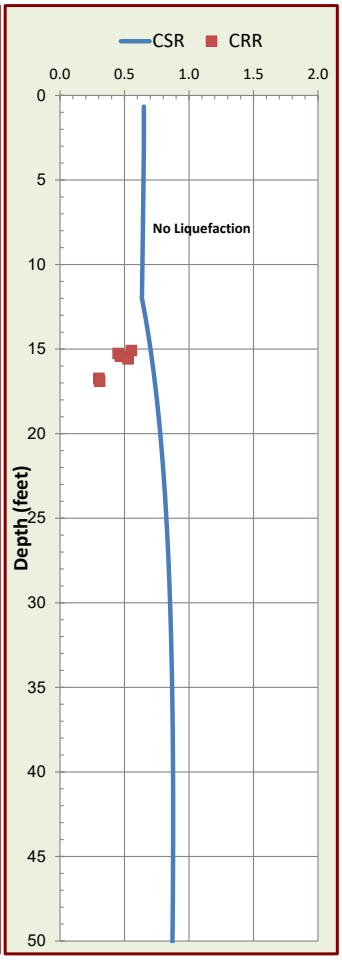
LDI[2]	0.00	L/H	1200.0
LDI[1] Corrected for Distance	0.00	(4 < L/H < 40)	

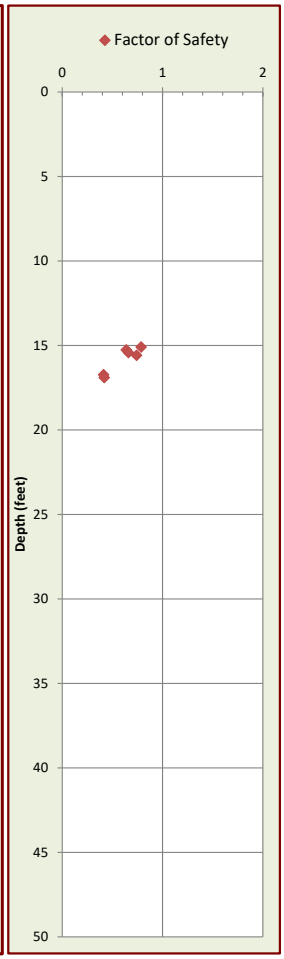
EXPECTED RANGE OF DISPLACEMENT

0.0 to 0.0 feet

[1]Not Valid for L/H Values < 4 and > 40.
[2]LDI Values Only Summed to 2H Below Grade.







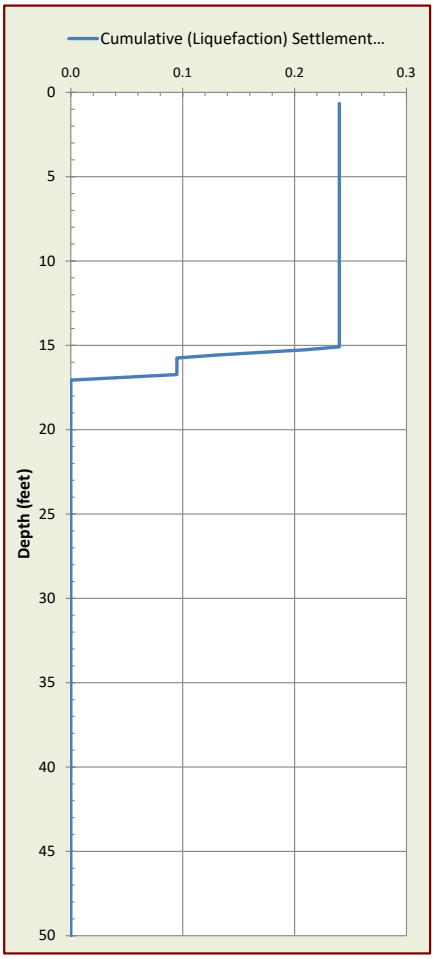


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FIGURE 4C

CPT NO. 3

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PROJECT/CPT DATA

Project Title	Washington Industrial Facility
Project No.	1262-2-1
Project Manager	RSM

SEISMIC PARAMETERS

Controlling Fault	Hayward	
Earthquake Magnitude (Mw)	7.58	
PGA (Amax)	1	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	17.6
Design Water Depth (feet)	12
Ave. Unit Weight Above GW (pcf)	120
Ave. Unit Weight Below GW (pcf)	125

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM	12	FEET
	0.04	(Inches)
LIQUEFACTION SETTLEMENT FROM	50	FEET
	0.22	(Inches)
TOTAL SEISMIC SETTLEMENT	0.3	INCHES

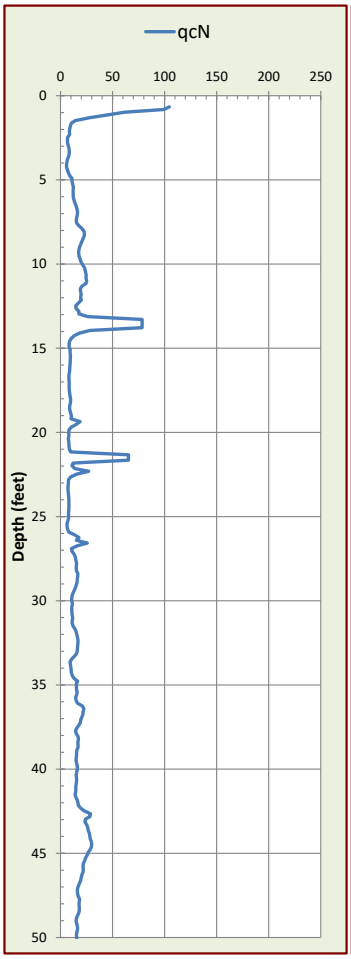
POTENTIAL LATERAL DISPLACEMENT

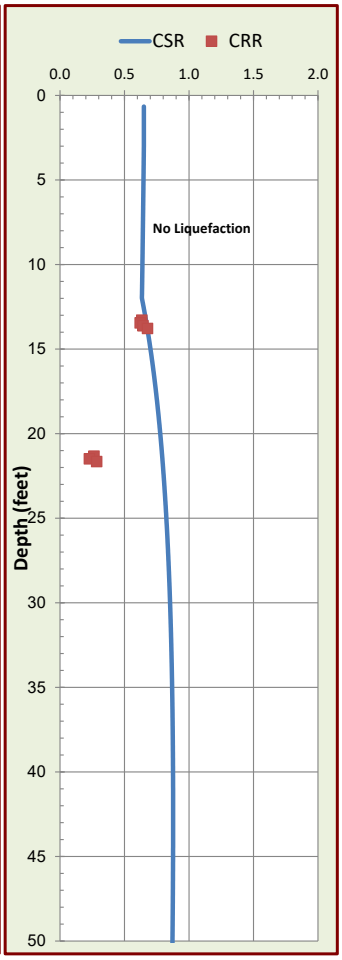
LDI[2]	0.00	L/H	1200.0
LDI[1] Corrected for Distance	0.00	(4 < L/H < 40)	

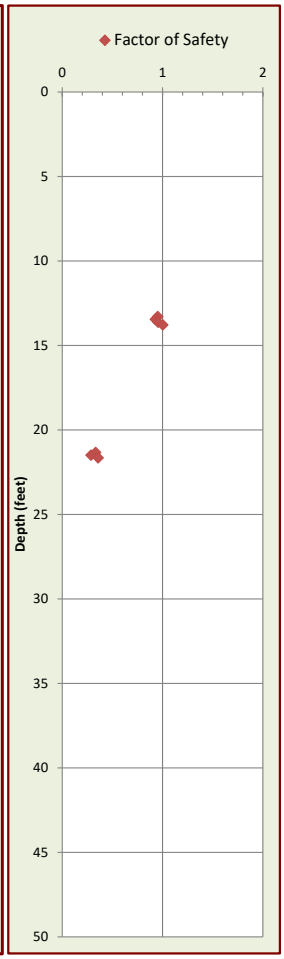
EXPECTED RANGE OF DISPLACEMENT

0.0 to 0.0 feet

[1]Not Valid for L/H Values < 4 and > 40.
[2]LDI Values Only Summed to 2H Below Grade.







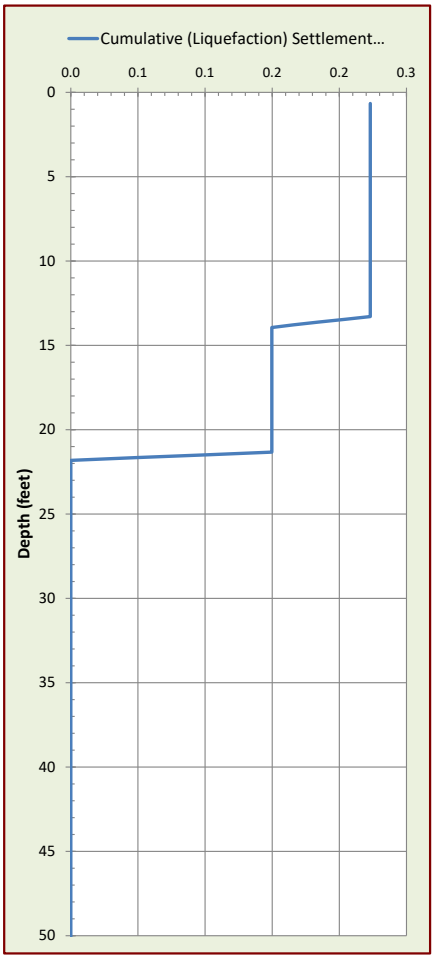


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FIGURE 4D

CPT NO. 4

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PROJECT/CPT DATA

Project Title	Washington Industrial Facility
Project No.	1262-2-1
Project Manager	RSM

SEISMIC PARAMETERS

Controlling Fault	Hayward	
Earthquake Magnitude (Mw)	7.58	
PGA (Amax)	1	(g)

SITE SPECIFIC PARAMETERS

Ground Water Depth at Time of Drilling (feet)	17.6
Design Water Depth (feet)	12
Ave. Unit Weight Above GW (pcf)	120
Ave. Unit Weight Below GW (pcf)	125

CPT ANALYSIS RESULTS

DRY SAND SETTLEMENT FROM	12	FEET
	0.05	(Inches)
LIQUEFACTION SETTLEMENT FROM	50	FEET
	0.19	(Inches)
TOTAL SEISMIC SETTLEMENT	0.2	INCHES

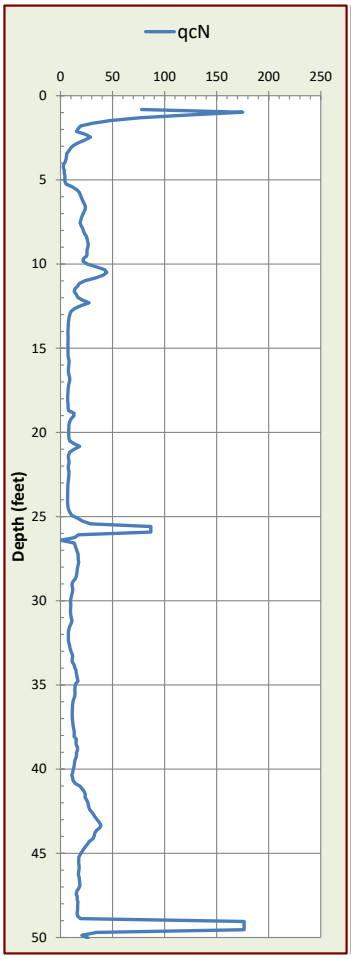
POTENTIAL LATERAL DISPLACEMENT

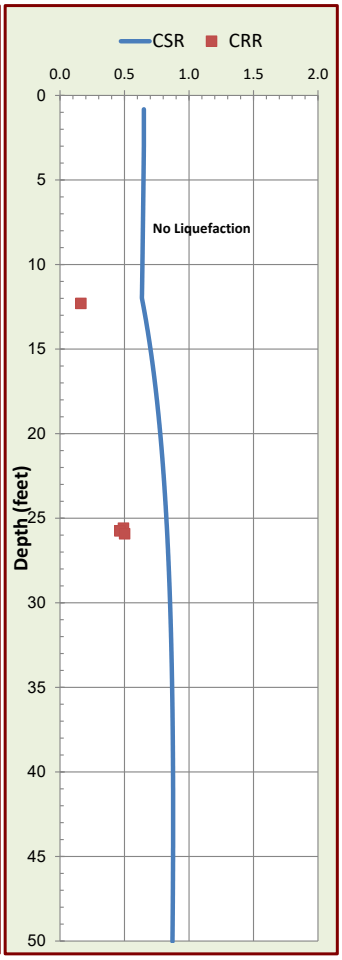
LDI[2]	0.00	L/H	1200.0
LDI[1] Corrected for Distance	0.00	(4 < L/H < 40)	

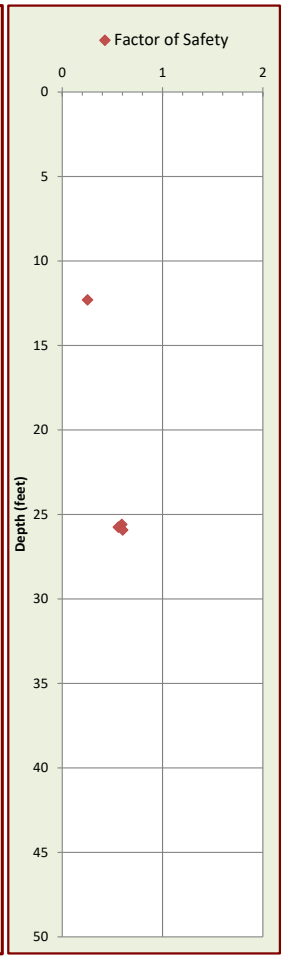
EXPECTED RANGE OF DISPLACEMENT

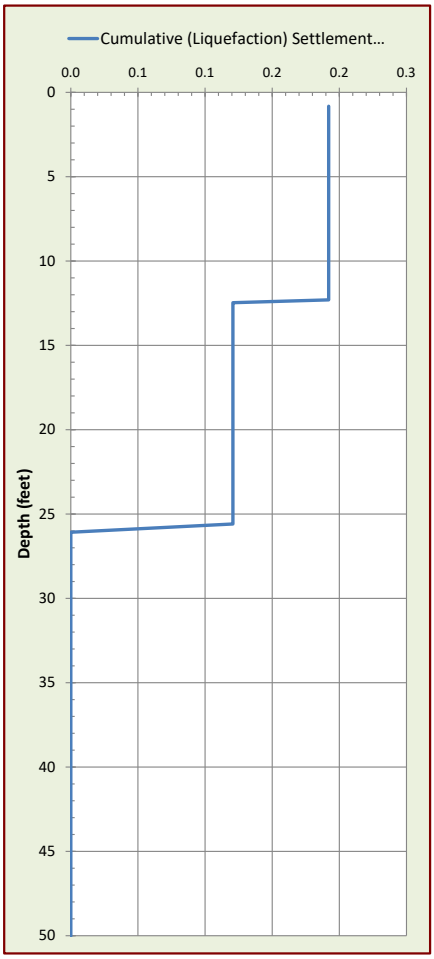
0.0 to 0.0 feet

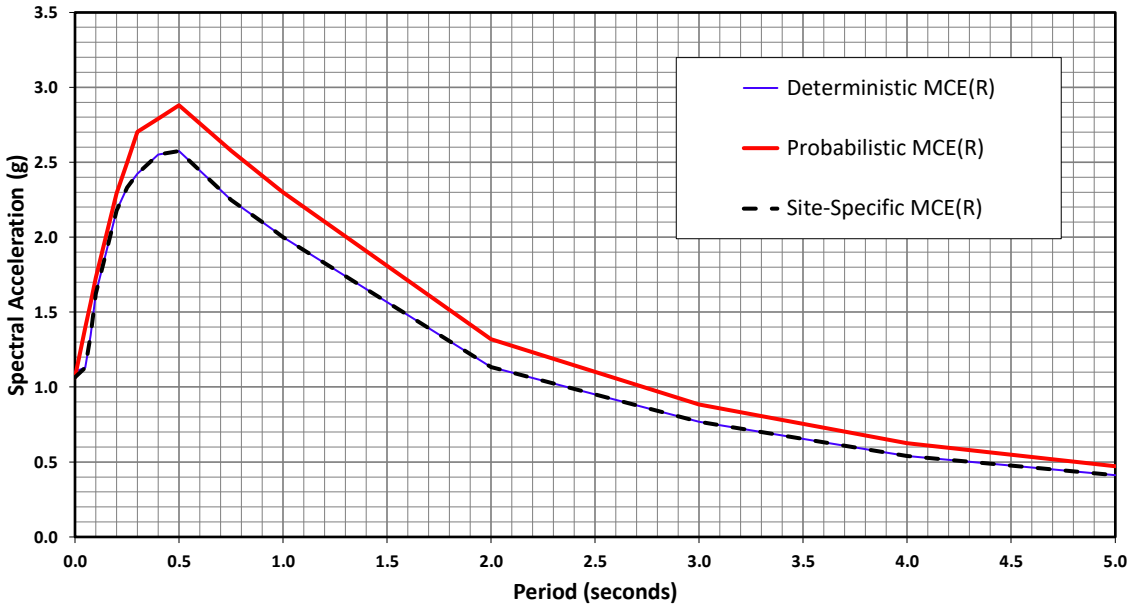
[1]Not Valid for L/H Values < 4 and > 40.
[2]LDI Values Only Summed to 2H Below Grade.











The Site-Specific Maximum Considered Earthquake (MCE_R) is defined as the lesser of the following at all periods:

- Deterministic MCE_R – maximum 84th percentile deterministic, or
- Probabilistic MCE_R – defined as the 2,475–year ground motion.

Site-Specific MCE_R	
Period (Seconds)	Spectral Acceleration (g)
0.00	1.065
0.05	1.130
0.08	1.347
0.10	1.622
0.19	2.135
0.20	2.177
0.25	2.330
0.30	2.422
0.40	2.551
0.50	2.576
0.75	2.249
0.96	2.038
1.00	2.001
2.00	1.134
3.00	0.769
4.00	0.539
5.00	0.412

References:

ASCE/SEI 7-16: Minimum Design Loads and Associated Criteria for Buildings and Other Strutures with Supplement No. 1.
2019 California Building Code, Title 24, Part 2, Volume 2

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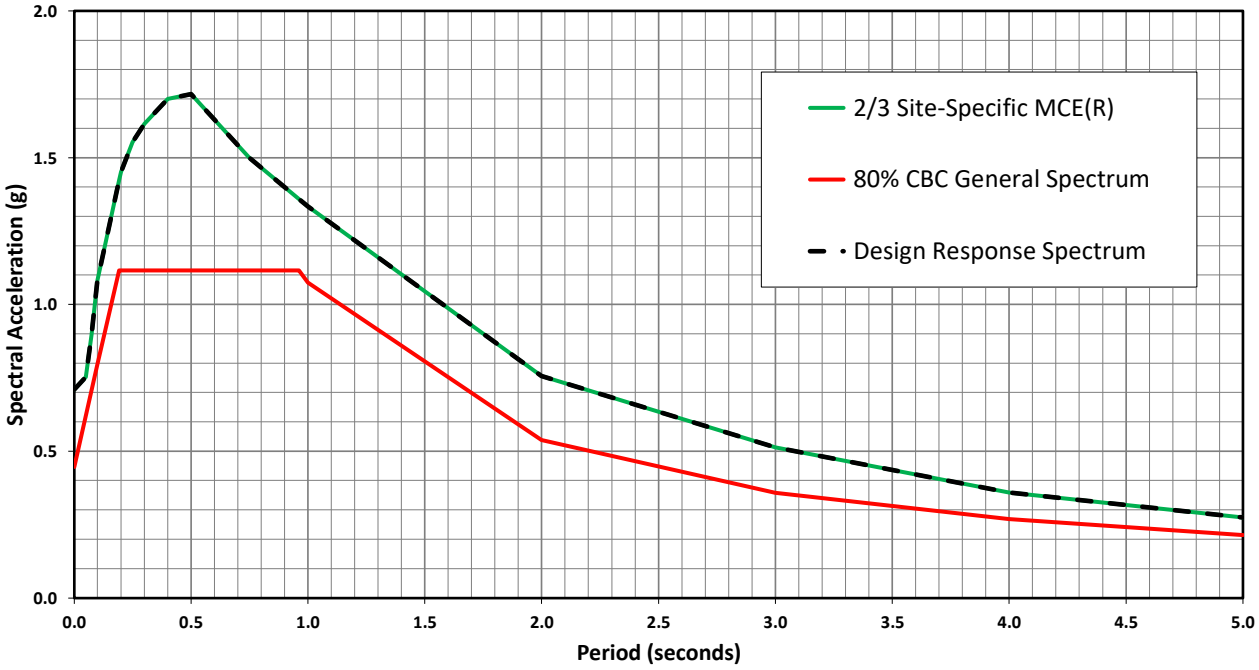
	MCE_R RESPONSE SPECTRA	FIGURE 5
	Washington Industrial Facility 14273 Washington Ave San Leandro, CA	PROJECT NO. 1262-2-1
		March 17, 2021 | RSM



The Site-Specific Design Response Spectrum per Section 21.2, 21.3 and 21.4 of ASCE 7-16 is defined as the greater of the following at all periods:

- 2/3 of the Site-Specific MCE_R, or
- 80% of the CBC General Spectrum.

Design Response Spectra	
Period (Seconds)	Spectral Acceleration (g)
0.00	0.710
0.05	0.753
0.08	0.898
0.10	1.081
0.19	1.424
0.20	1.451
0.25	1.553
0.30	1.615
0.40	1.700
0.50	1.717
0.75	1.499
0.96	1.359
1.00	1.334
2.00	0.756
3.00	0.512
4.00	0.359
5.00	0.275

Site Design	Design Values
Site Class (Per Chapter 20 ASCE 7-16)	D
Shear Wave Velocity, V_{S30} (m/sec)	241
Site Latitude (degrees)	37.706563
Site Longitude (degrees)	-122.144755
Risk Category	II
Building Period (sec)	Unknown
Importance Factor, I_e	1
[1]Site Specific PGA_M (g)	1.00

[1] Lower of Deterministic and Probabilistic, but not less than 80% of mapped value of FM x PGA, determined in accordance with Section 21.5 of ASCE 7-16.

Design Acceleration Parameters[1]	
S_{DS}	1.546
S_{D1}	1.537
S_{MS}	2.318
S_{M1}	2.306

References:

ASCE/SEI 7-16: Minimum Design Loads and Associated Criteria for Buildings and Other Strutures with Supplement No. 1.
2019 California Building Code, Title 24, Part 2, Volume 2

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DESIGN RESPONSE SPECTRA

FIGURE 6

Washington Industrial Facility
14273 Washington Ave
San Leandro, CA

PROJECT NO. 1262-2-1

March 17, 2021 | RSM

APPENDIX A: FIELD INVESTIGATION

The field investigation consisted of a surface reconnaissance and a subsurface exploration program using truck-mounted, hollow-stem auger drilling equipment and 20-ton truck-mounted Cone Penetration Test equipment. Three 8-inch-diameter exploratory borings were drilled on March 1, 2021 to depths of 30 to 40 feet. Four CPT soundings were also performed in accordance with ASTM D 5778-95 (revised, 2002) on February 19, 2021, to depths ranging from 50 to 100 feet. The approximate locations of exploratory borings and CPTs are shown on the Site Plan, Figure 2. The soils encountered were continuously logged in the field by our representative and described in accordance with the Unified Soil Classification System (ASTM D2488). Boring logs, as well as a key to the classification of the soil and bedrock, are included as part of this appendix.

Boring and CPT locations were approximated using existing site boundaries and other site features as references. Boring and CPT elevations were not determined. The locations of the borings and CPTs should be considered accurate only to the degree implied by the method used.

Representative soil samples were obtained from the borings at selected depths. All samples were returned to our laboratory for evaluation and appropriate testing. The standard penetration resistance blow counts were obtained by dropping a 140-pound hammer through a 30-inch free fall. The 2-inch O.D. split-spoon sampler was driven 18 inches and the number of blows was recorded for each 6 inches of penetration (ASTM D1586). 2.5-inch I.D. samples were obtained using a Modified California Sampler driven into the soil with the 140-pound hammer previously described. Relatively undisturbed samples were also obtained with 2.875-inch I.D. Shelby Tube sampler which were hydraulically pushed. Unless otherwise indicated, the blows per foot recorded on the boring log represent the accumulated number of blows required to drive the last 12 inches. The various samplers are denoted at the appropriate depth on the boring logs.

The CPT involved advancing an instrumented cone-tipped probe into the ground while simultaneously recording the resistance at the cone tip (q_c) and along the friction sleeve (f_s) at approximately 5-centimeter intervals. Based on the tip resistance and tip to sleeve ratio (R_f), the CPT classified the soil behavior type and estimated engineering properties of the soil, such as equivalent Standard Penetration Test (SPT) blow count, internal friction angle within sand layers, and undrained shear strength in silts and clays. A pressure transducer behind the tip of the CPT cone measured pore water pressure (u_2). Graphical logs of the CPT data is included as part of this appendix.

Field tests included an evaluation of the unconfined compressive strength of the soil samples using a pocket penetrometer device. The results of these tests are presented on the individual boring logs at the appropriate sample depths.

Attached boring and CPT logs and related information depict subsurface conditions at the locations indicated and on the date designated on the logs. Subsurface conditions at other locations may differ from conditions occurring at these boring and CPT locations. The passage of time may result in altered subsurface conditions due to environmental changes. In addition,

any stratification lines on the logs represent the approximate boundary between soil types and the transition may be gradual.

UNIFIED SOIL CLASSIFICATION (ASTM D-2487-10)

MATERIAL TYPES	CRITERIA FOR ASSIGNING SOIL GROUP NAMES			GROUP SYMBOL	SOIL GROUP NAMES & LEGEND
COARSE-GRAINED SOILS >50% RETAINED ON NO. 200 SIEVE	GRAVELS >50% OF COARSE FRACTION RETAINED ON NO 4. SIEVE	CLEAN GRAVELS <5% FINES	Cu>4 AND 1<Cc<3	GW	WELL-GRADED GRAVEL
			Cu>4 AND 1>Cc>3	GP	POORLY-GRADED GRAVEL
		GRAVELS WITH FINES >12% FINES	FINES CLASSIFY AS ML OR CL	GM	SILTY GRAVEL
			FINES CLASSIFY AS CL OR CH	GC	CLAYEY GRAVEL
	SANDS >50% OF COARSE FRACTION PASSES ON NO 4. SIEVE	CLEAN SANDS <5% FINES	Cu>6 AND 1<Cc<3	SW	WELL-GRADED SAND
			Cu>6 AND 1>Cc>3	SP	POORLY-GRADED SAND
		SANDS AND FINES >12% FINES	FINES CLASSIFY AS ML OR CL	SM	SILTY SAND
			FINES CLASSIFY AS CL OR CH	SC	CLAYEY SAND
FINE-GRAINED SOILS >50% PASSES NO. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT<50	INORGANIC	PI>7 AND PLOTS>"A" LINE	CL	LEAN CLAY
			PI>4 AND PLOTS<"A" LINE	ML	SILT
		ORGANIC	LL (oven dried)/LL (not dried)<0.75	OL	ORGANIC CLAY OR SILT
	SILTS AND CLAYS LIQUID LIMIT>50	INORGANIC	PI PLOTS >"A" LINE	CH	FAT CLAY
			PI PLOTS <"A" LINE	MH	ELASTIC SILT
		ORGANIC	LL (oven dried)/LL (not dried)<0.75	OH	ORGANIC CLAY OR SILT
HIGHLY ORGANIC SOILS		PRIMARILY ORGANIC MATTER, DARK IN COLOR, AND ORGANIC ODOR		PT	PEAT

OTHER MATERIAL SYMBOLS

- Poorly-Graded Sand with Clay
- Clayey Sand
- Sandy Silt
- Artificial/Undocumented Fill
- Poorly-Graded Gravelly Sand
- Topsoil
- Well-Graded Gravel with Clay
- Well-Graded Gravel with Silt
- Sand
- Silt
- Well Graded Gravelly Sand
- Gravelly Silt
- Asphalt
- Boulders and Cobble

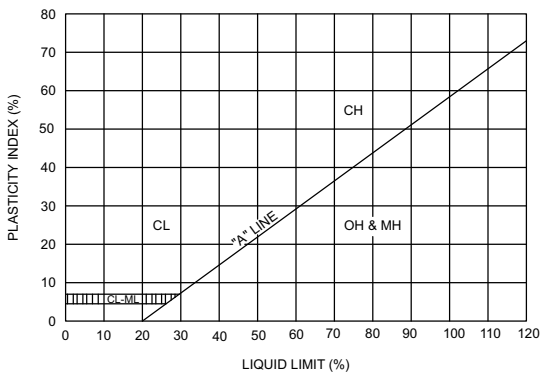
SAMPLER TYPES

- SPT
- Modified California (2.5" I.D.)
- Rock Core
- Shelby Tube
- No Recovery
- Grab Sample

ADDITIONAL TESTS

CA	-	CHEMICAL ANALYSIS (CORROSIVITY)	PI	-	PLASTICITY INDEX
CD	-	CONSOLIDATED DRAINED TRIAXIAL	SW	-	SWELL TEST
CN	-	CONSOLIDATION	TC	-	CYCLIC TRIAXIAL
CU	-	CONSOLIDATED UNDRAINED TRIAXIAL	TV	-	TORVANE SHEAR
DS	-	DIRECT SHEAR	UC	-	UNCONFINED COMPRESSION
PP	-	POCKET PENETROMETER (TSF)	(1.5)	-	(WITH SHEAR STRENGTH IN KSF)
(3.0)	-	(WITH SHEAR STRENGTH IN KSF)			
RV	-	R-VALUE	UU	-	UNCONSOLIDATED UNDRAINED TRIAXIAL
SA	-	SIEVE ANALYSIS: % PASSING #200 SIEVE			
▼	-	WATER LEVEL			

PLASTICITY CHART



PENETRATION RESISTANCE
(RECORDED AS BLOWS / FOOT)

SAND & GRAVEL		SILT & CLAY		
RELATIVE DENSITY	BLOWS/FOOT*	CONSISTENCY	BLOWS/FOOT*	STRENGTH** (KSF)
VERY LOOSE	0 - 4	VERY SOFT	0 - 2	0 - 0.25
LOOSE	4 - 10	SOFT	2 - 4	0.25 - 0.5
MEDIUM DENSE	10 - 30	MEDIUM STIFF	4 - 8	0.5-1.0
DENSE	30 - 50	STIFF	8 - 15	1.0 - 2.0
VERY DENSE	OVER 50	VERY STIFF	15 - 30	2.0 - 4.0
		HARD	OVER 30	OVER 4.0

* NUMBER OF BLOWS OF 140 LB HAMMER FALLING 30 INCHES TO DRIVE A 2 INCH O.D. (1-3/8 INCH I.D.) SPLIT-BARREL SAMPLER THE LAST 12 INCHES OF AN 18-INCH DRIVE (ASTM-1586 STANDARD PENETRATION TEST).

** UNDRAINED SHEAR STRENGTH IN KIPS/SQ. FT. AS DETERMINED BY LABORATORY TESTING OR APPROXIMATED BY THE STANDARD PENETRATION TEST, POCKET PENETROMETER, TORVANE, OR VISUAL OBSERVATION.

CORNERSTONE EARTH GROUP

LEGEND TO SOIL DESCRIPTIONS

Figure Number A-1

BORING NUMBER EB-1

CORNERSTONE EARTH GROUP

PROJECT NAME Washington Industrial Facility
PROJECT NUMBER 1262-2-1
PROJECT LOCATION 14273 Washington Ave., San Leandro, CA

DATE STARTED 3/1/21 **DATE COMPLETED** 3/1/21
GROUND ELEVATION _____ **BORING DEPTH** 30 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc. **LATITUDE** _____ **LONGITUDE** _____
DRILLING METHOD Mobile B-56, 8 inch Hollow-Stem Auger **GROUND WATER LEVELS:**
LOGGED BY RAH ▽ **AT TIME OF DRILLING** 18 ft.
NOTES _____ ▼ **AT END OF DRILLING** 18 ft.

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
	0		6 inches Portland cement concrete over 6 inches aggregate base							
			Lean Clay with Gravel (CL) [Fill] very stiff, moist, dark brown, fine to coarse subangular gravel, some fine to coarse sand, moderate plasticity	27	MC-1B	102	22			○ 2.0
			Lean Clay (CL) very stiff, moist, dark brown, some fine sand, moderate plasticity	32	MC-2B	92	26			○ 2.0
	5			39	MC-3B	101	24			○ 3.0
			Lean Clay with Sand (CL) very stiff, moist, brown, fine sand, moderate plasticity							
			Sandy Lean Clay (CL) very stiff, moist, brown, fine to medium sand, low plasticity	24	MC-4B	100	18			○ 2.5
	10									
			Lean Clay with Sand (CL) stiff, moist, brown, fine sand, moderate plasticity	20	MC-5B	101	21			○ 1.5
	15									
			Sandy Lean Clay (CL) medium stiff, moist, gray with brown mottles, fine to medium sand, low plasticity	15	MC-6B	95	24			○ 0.5
	20									
			Silty Sand (SM) medium dense, moist, brown, fine sand	21	MC-7B	99	32			○ 0.5
	25									

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BORING NUMBER EB-1

CORNERSTONE EARTH GROUP

PROJECT NAME Washington Industrial Facility

PROJECT NUMBER 1262-2-1

PROJECT LOCATION 14273 Washington Ave., San Leandro, CA

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
			Lean Clay (CL) medium stiff, moist, brown, some fine sand, moderate plasticity	14	MC-8B	99	26			○
	30		Bottom of Boring at 30.0 feet.							
	35									
	40									
	45									
	50									
	55									

CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 3/11/21 12:21 - P:\DRAFTING\GINT FILES\1262-2-1 WASHINGTON AVE.GPJ

BORING NUMBER EB-2

CORNERSTONE EARTH GROUP

PROJECT NAME Washington Industrial Facility
PROJECT NUMBER 1262-2-1
PROJECT LOCATION 14273 Washington Ave., San Leandro, CA

DATE STARTED 3/1/21 **DATE COMPLETED** 3/1/21
GROUND ELEVATION _____ **BORING DEPTH** 40 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc. **LATITUDE** _____ **LONGITUDE** _____
DRILLING METHOD Mobile B-56, 8 inch Hollow-Stem Auger **GROUND WATER LEVELS:**
LOGGED BY RAH ▽ **AT TIME OF DRILLING** 17 ft.
NOTES _____ ▼ **AT END OF DRILLING** 17 ft.

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE
	0		6 inches Portland cement concrete over 6 inches aggregate base						
			Lean Clay with Gravel (CL) [Fill] very stiff, moist, dark gray and brown mottled, fine to coarse subangular gravel, some fine to coarse sand, moderate plasticity	44	MC-1C	99	19	22	
			Liquid Limit = 39, Plastic Limit = 17	68	MC-2B	102	21		
			Lean Clay (CL) very stiff, moist, dark brown, some fine sand, moderate plasticity	50/5"	MC-3B	100	24		
	5								
			Sandy Lean Clay (CL) hard, moist, brown, fine to medium sand, low plasticity	56	MC-4B	111	15		
	10		**Lean Clay (CL)** very stiff, moist, gray with brown mottles, fine sand, low to moderate plasticty	36	MC-5B	103	20		
	15		**Silty Sand (SM)** loose, moist, brown, fine to coarse sand	28	MC-6B	99	16		
▼				15	MC-7B	102	24		
	20		**Sandy Lean Clay (CL)** stiff, moist, brown, fine sand, moderate plasticity		ST				
			Lean Clay (CL) medium stiff, moist, gray with brown mottles, some fine sand, moderate plasticty	15	MC-9B	84	38		
	25								

UNDRAINED SHEAR STRENGTH, ksf
○ HAND PENETROMETER
△ TORVANE
● UNCONFINED COMPRESSION
▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL
1.0 2.0 3.0 4.0

>4.5

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BORING NUMBER EB-2

CORNERSTONE EARTH GROUP

PROJECT NAME Washington Industrial Facility

PROJECT NUMBER 1262-2-1

PROJECT LOCATION 14273 Washington Ave., San Leandro, CA

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
	30		**Fat Clay (CH)** very stiff, moist, dark gray, trace fine sand, high plasticity	35	MC-10B	94	29			○ at 2.0
	35		**Lean Clay with Sand (CL)** very stiff, moist, gray with light olive brown mottles, fine to medium sand, moderate plasticity	27	MC-11B	93	30			○ at 2.0
	40		**Lean Clay (CL)** very stiff, moist, gray with reddish brown mottles, some fine sand, moderate plasticity	52	MC-12B	103	23			○ at 3.0
			Bottom of Boring at 40.0 feet.							
	45									
	50									
	55									

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BORING NUMBER EB-3

CORNERSTONE EARTH GROUP

PROJECT NAME Washington Industrial Facility
PROJECT NUMBER 1262-2-1
PROJECT LOCATION 14273 Washington Ave., San Leandro, CA

DATE STARTED 3/1/21 **DATE COMPLETED** 3/1/21
GROUND ELEVATION _____ **BORING DEPTH** 30 ft.
DRILLING CONTRACTOR Exploration Geoservices Inc. **LATITUDE** _____ **LONGITUDE** _____
DRILLING METHOD Mobile B-56, 8 inch Hollow-Stem Auger **GROUND WATER LEVELS:**
LOGGED BY RAH ▽ **AT TIME OF DRILLING** 20 ft.
NOTES _____ ▼ **AT END OF DRILLING** 17 ft.

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf
	0		8 inches Portland cement concrete over 4 inches aggregate base							
		CL	**Lean Clay with Gravel (CL) [Fill]** very stiff, moist, dark brown, fine to coarse subangular gravel, some fine to coarse sand, moderate plasticity	38	MC-1B	95	22			
			Lean Clay (CL) hard to very stiff, moist, dark brown, some fine sand, moderate plasticity Liquid Limit = 44, Plastic Limit = 20	27	MC-2A	98	23	24		>4.5
	5			50 4"	MC-3B	102	23			
			Lean Clay with Sand (CL) hard, moist, gray with brown mottles, fine to medium sand, moderate plasticity	72	MC-4B	110	19			
	10		**Sandy Lean Clay (CL)** medium stiff, moist, brown, fine to coarse sand, lowplasticity	28	MC-5B	98	21			
			Lean Clay with Sand (CL) medium stiff, moist, brown, fine sand, moderate plasticity		ST-6	96	26			
	15			23	MC-7B	97	25			
	20		becomes soft							
		SM	**Silty Sand (SM)** medium dense, moist, fine sand	24	MC-8C	90	33			
		CL	**Lean Clay with Sand (CL)** medium stiff, moist, brown, fine sand, moderate plasticity							
	25			22	MC-9B	101	24			

UNDRAINED SHEAR STRENGTH, ksf
○ HAND PENETROMETER
△ TORVANE
● UNCONFINED COMPRESSION
▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL
1.0 2.0 3.0 4.0

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BORING NUMBER EB-3

CORNERSTONE EARTH GROUP

PROJECT NAME Washington Industrial Facility

PROJECT NUMBER 1262-2-1

PROJECT LOCATION 14273 Washington Ave., San Leandro, CA

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	SAMPLES TYPE AND NUMBER	DRY UNIT WEIGHT PCF	NATURAL MOISTURE CONTENT	PLASTICITY INDEX, %	PERCENT PASSING No. 200 SIEVE	UNDRAINED SHEAR STRENGTH, ksf (○ HAND PENETROMETER, △ TORVANE, ● UNCONFINED COMPRESSION, ▲ UNCONSOLIDATED-UNDRAINED TRIAXIAL; 1.0 2.0 3.0 4.0)
			Lean Clay (CL) very stiff, moist, brown with gray mottles, some fine sand, moderate plasticity	39	MC-10B	95	27			○
	30		Bottom of Boring at 30.0 feet.							
	35									
	40									
	45									
	50									
	55									

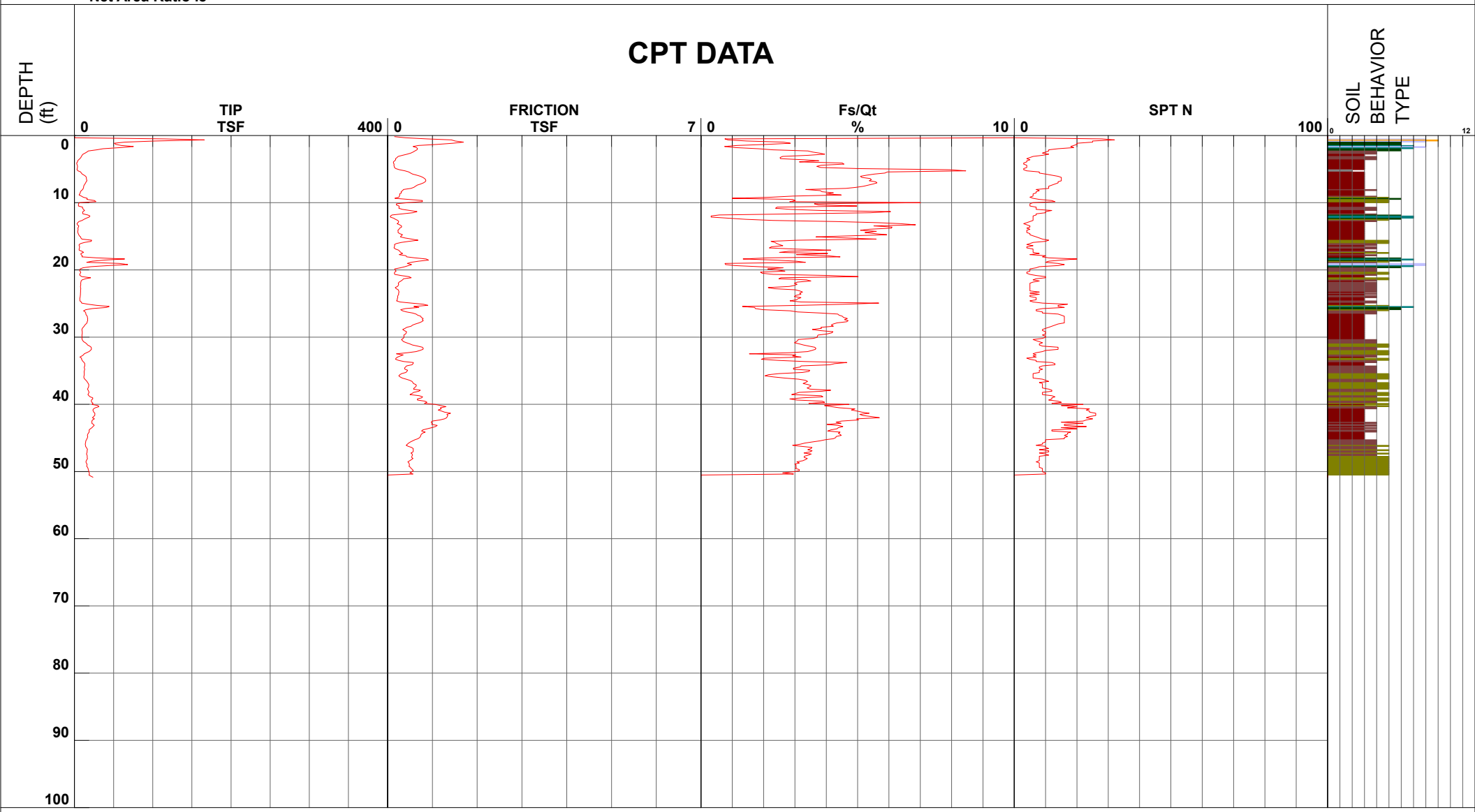
CORNERSTONE EARTH GROUP2 - CORNERSTONE 0812.GDT - 3/11/21 12:21 - P:\DRAFTING\GINT FILES\1262-2-1 WASHINGTON AVE.GPJ

Cornerstone Earth Group

Project	Washington Ave Industrial Facility GI	Operator	BH-ZG	Filename	SDF(290).cpt
Job Number	1262-2-1	Cone Number	DPG1556	GPS	
Hole Number	CPT-01	Date and Time	2/19/2021 7:32:19 AM	Maximum Depth	50.85 ft
EST GW Depth During Test		15.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm squared

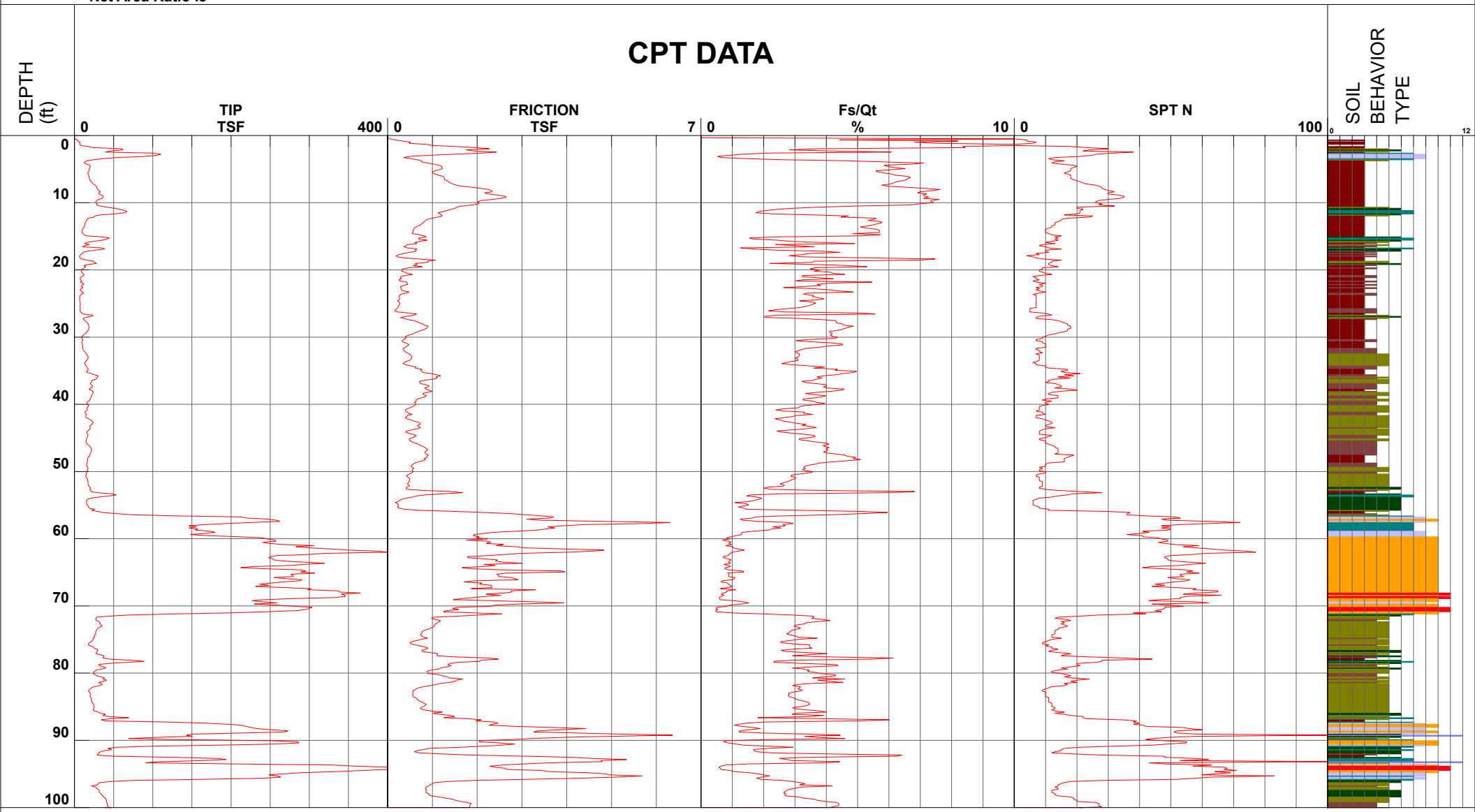
S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

Project	Washington Ave Industrial Facility GI	Operator	BH-ZG	Filename	SDF(294).cpt
Job Number	1262-2-1	Cone Number	DPG1556	GPS	
Hole Number	CPT-02	Date and Time	2/19/2021 11:01:27 AM	Maximum Depth	100.72 ft
EST GW Depth During Test		20.00 ft			

Net Area Ratio .8

CPT DATA



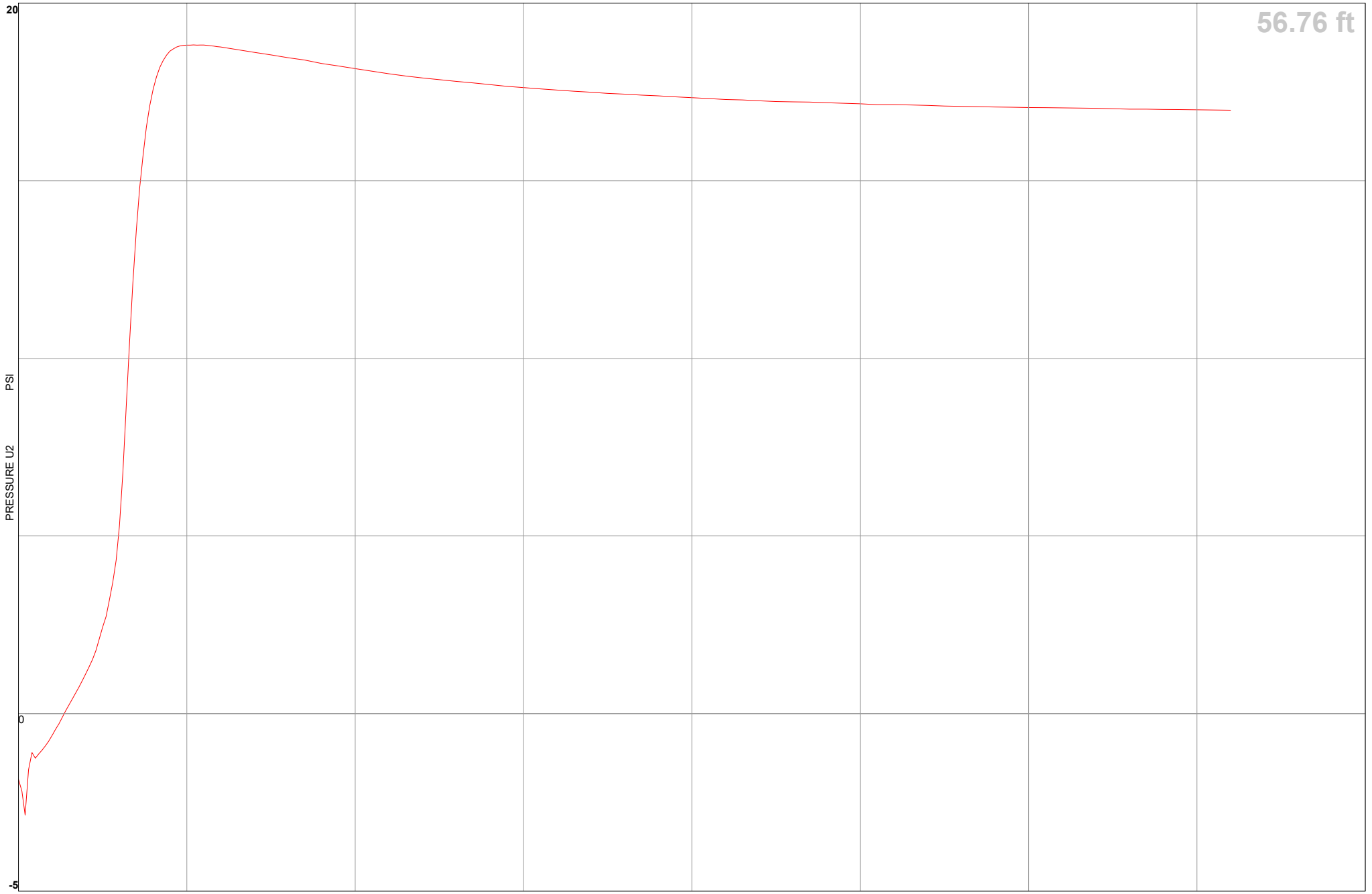
1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm squared

S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

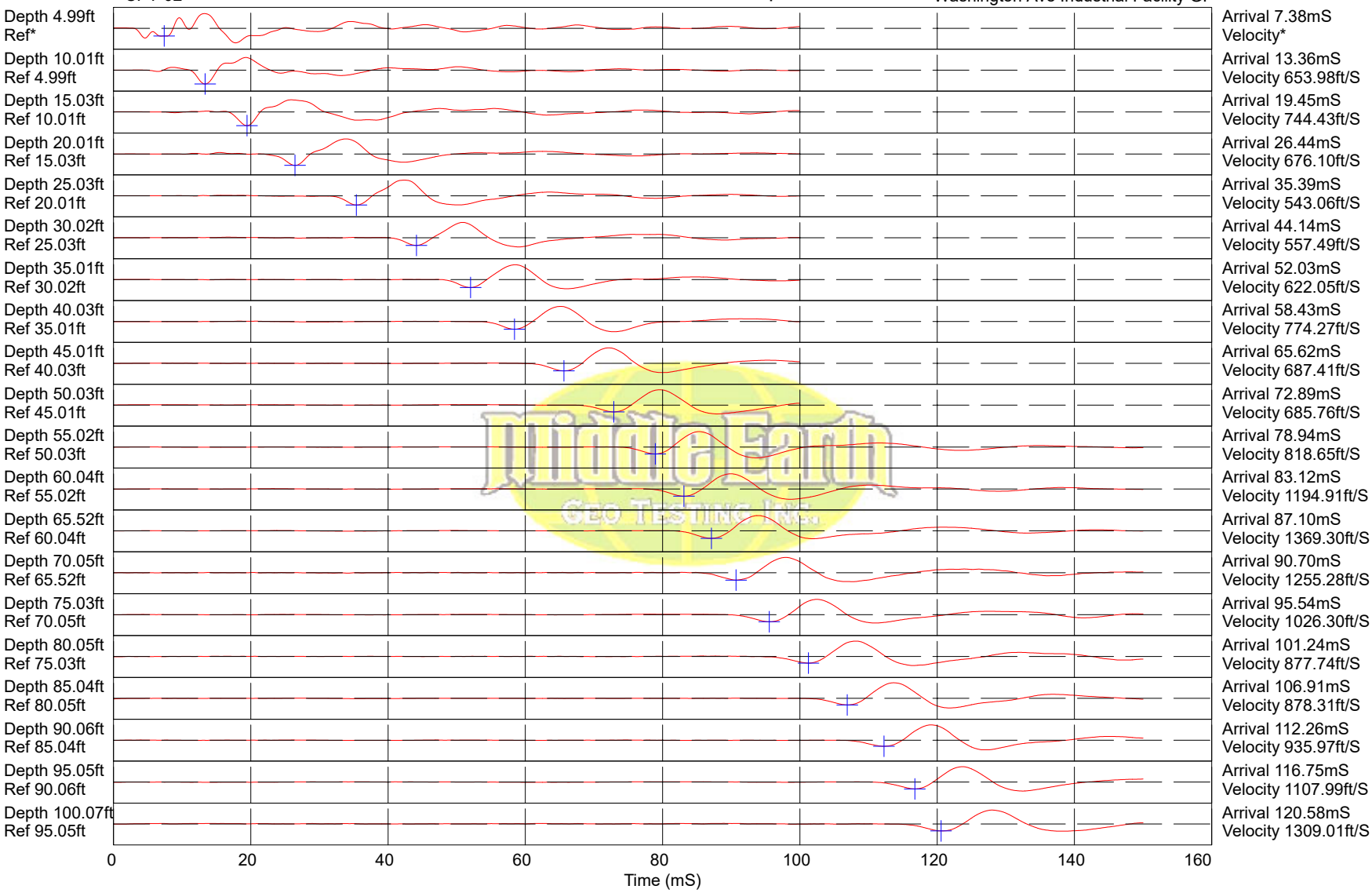
Location	Washington Ave Industrial Facility GI	Operator	BH-ZG		
Job Number	1262-2-1	Cone Number	DPG1556	GPS	
Hole Number	CPT-02	Date and Time	2/19/2021 11:01:27 AM		
Equilized Pressure	16.9	EST GW Depth During Test	17.6		



CPT-02

Cornerstone Earth Group

Washington Ave Industrial Facility GI



Hammer to Rod String Distance (ft): 5.83

* = Not Determined

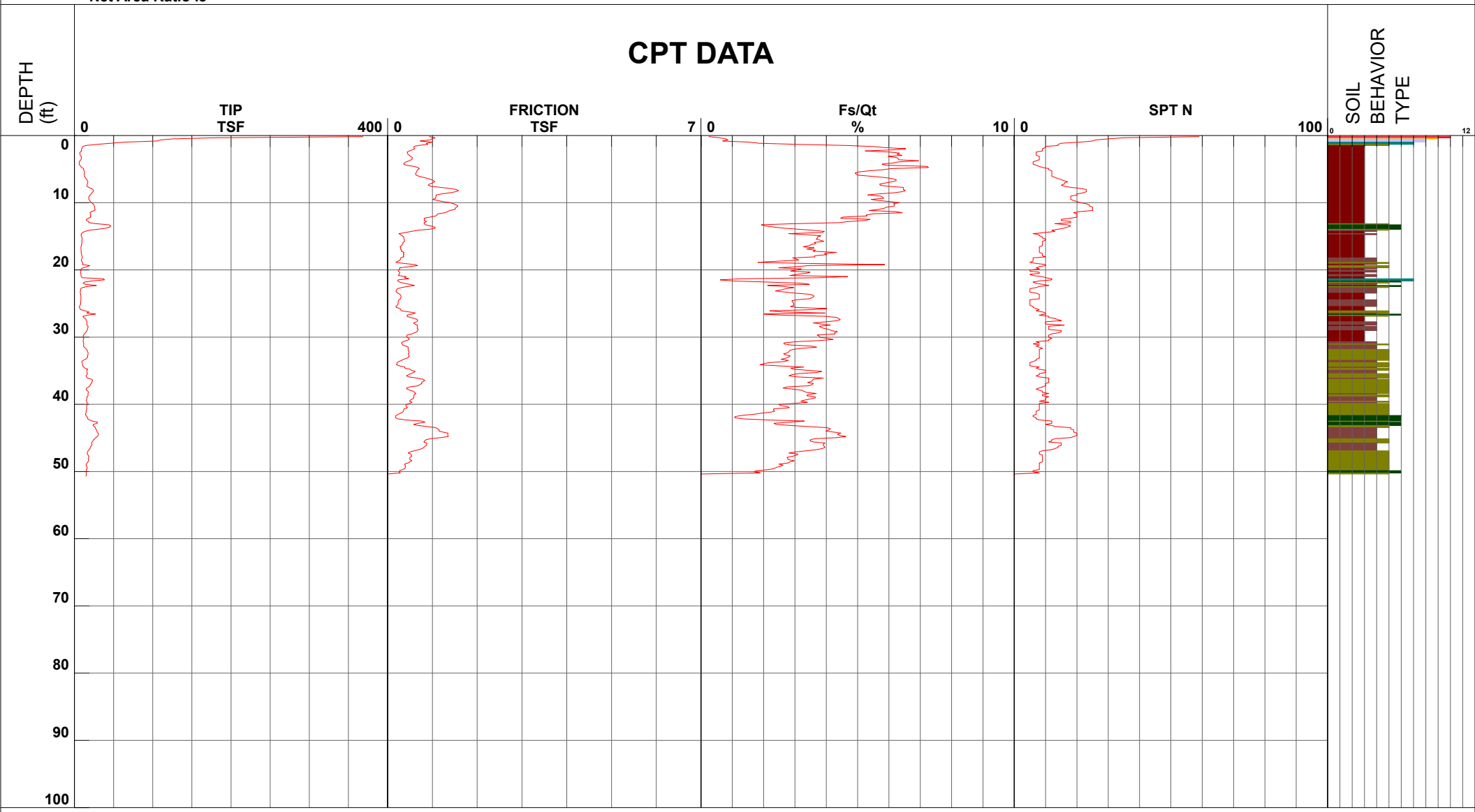
COMMENT:

Cornerstone Earth Group

Project	Washington Ave Industrial Facility GI	Operator	BH-ZG	Filename	SDF(292).cpt
Job Number	1262-2-1	Cone Number	DPG1556	GPS	
Hole Number	CPT-03	Date and Time	2/19/2021 9:17:40 AM	Maximum Depth	50.69 ft
EST GW Depth During Test		18.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm squared

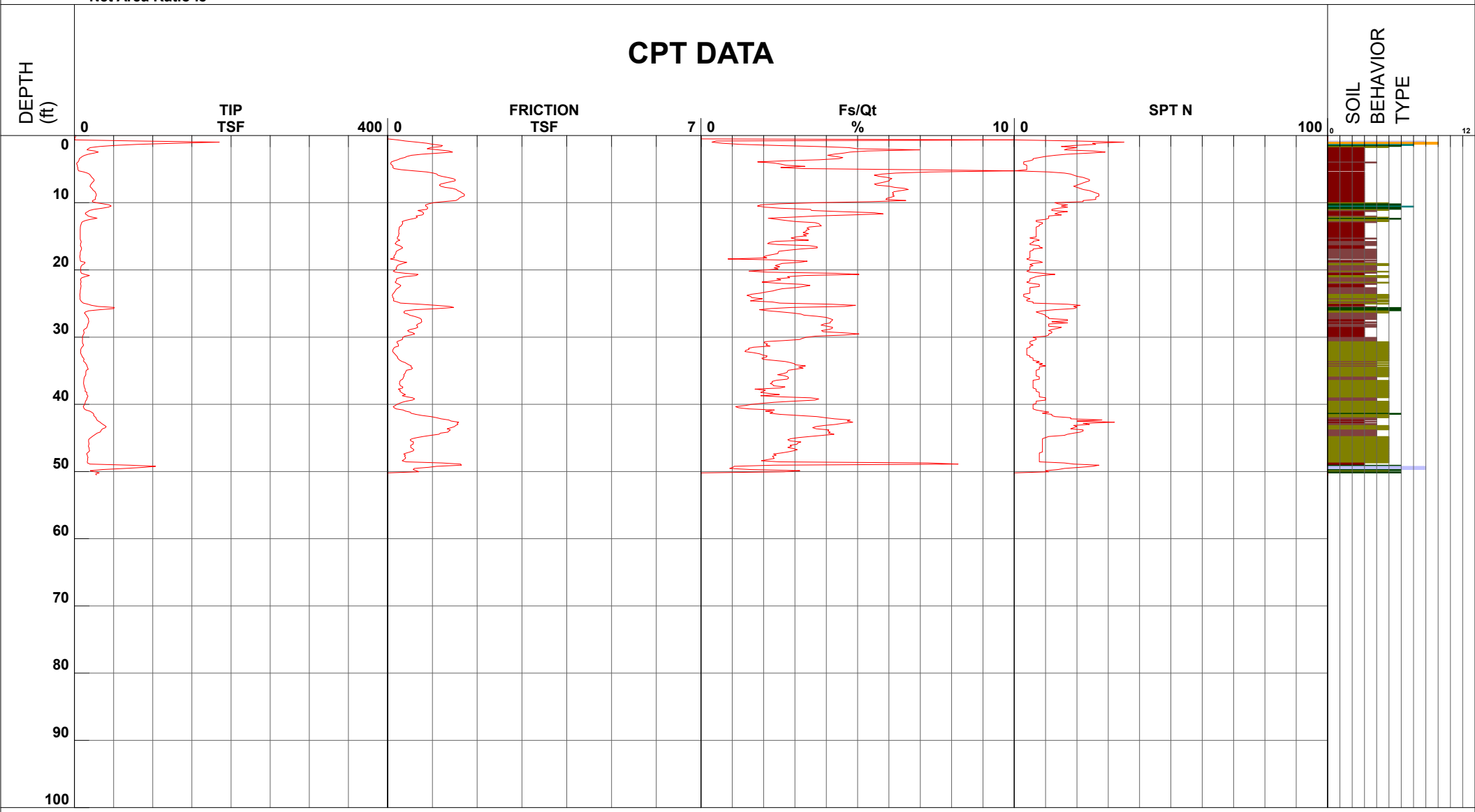
S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

Project	Washington Ave Industrial Facility GI	Operator	BH-ZG	Filename	SDF(293).cpt
Job Number	1262-2-1	Cone Number	DPG1556	GPS	
Hole Number	CPT-04	Date and Time	2/19/2021 10:10:50 AM	Maximum Depth	50.52 ft
EST GW Depth During Test		18.00 ft			

Net Area Ratio .8

CPT DATA



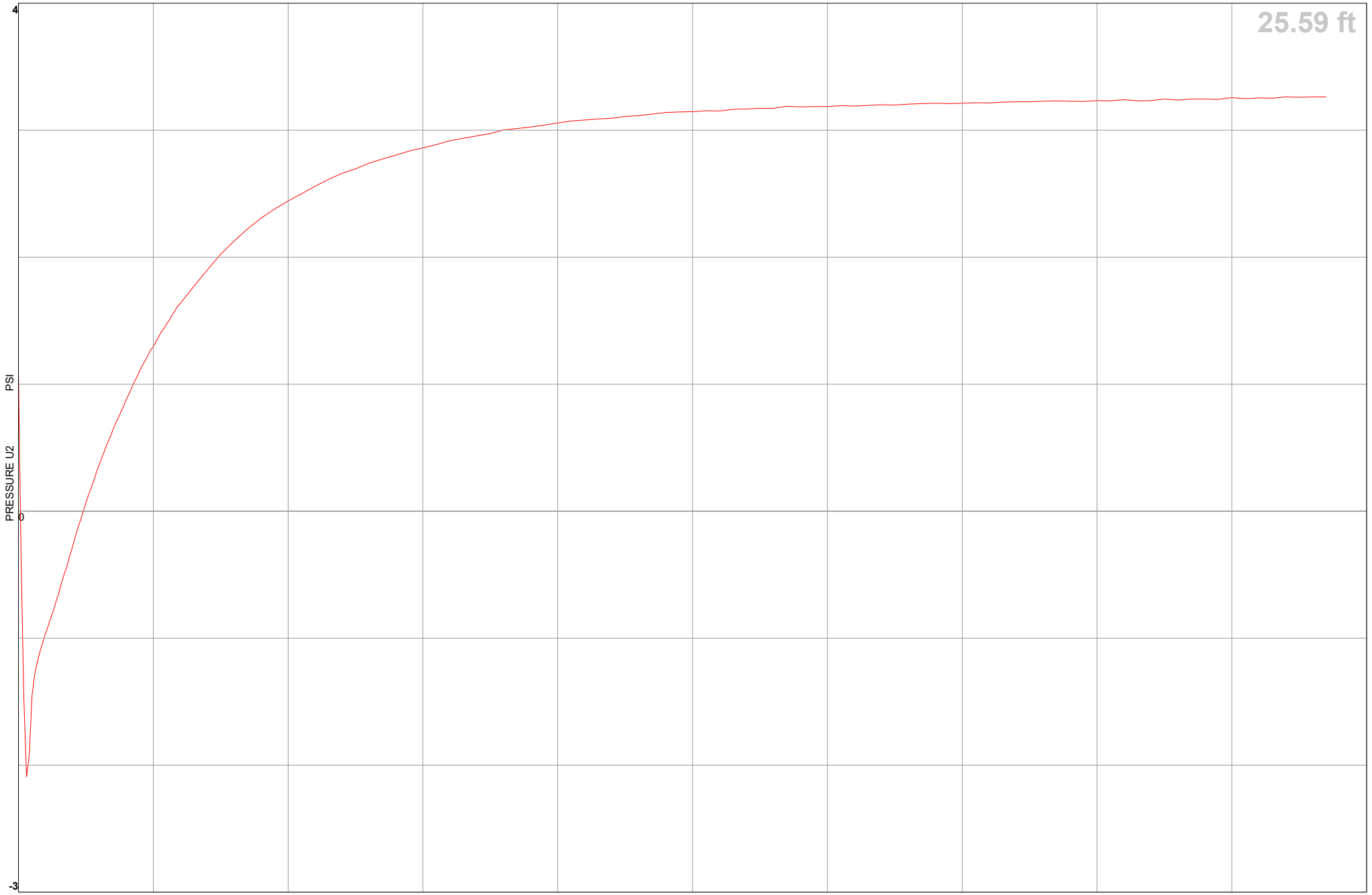
1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 15cm squared

S*Soil behavior type and SPT based on data from UBC-1983

Cornerstone Earth Group

Location	Washington Ave Industrial Facility GI	Operator	BH-ZG	
Job Number	1262-2-1	Cone Number	DPG1556	GPS
Hole Number	CPT-04	Date and Time	2/19/2021 10:10:50 AM	
Equilized Pressure	3.2	EST GW Depth During Test	18.0	



APPENDIX B: LABORATORY TEST PROGRAM

The laboratory testing program was performed to evaluate the physical and mechanical properties of the soils retrieved from the site to aid in verifying soil classification.

Moisture Content: The natural water content was determined (ASTM D2216) on 29 samples of the materials recovered from the borings. These water contents are recorded on the boring logs at the appropriate sample depths.

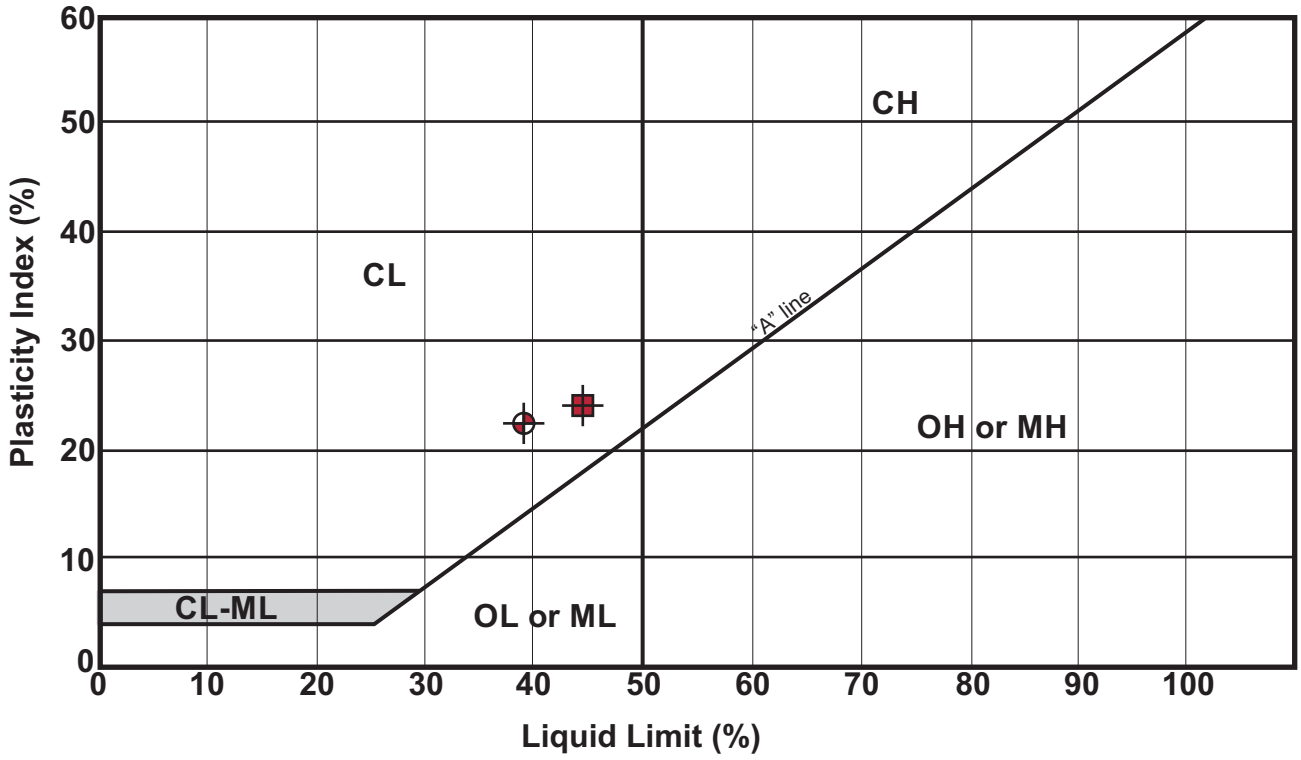
Dry Densities: In place dry density determinations (ASTM D2937) were performed on 29 samples to measure the unit weight of the subsurface soils. Results of these tests are shown on the boring logs at the appropriate sample depths.

Plasticity Index: Two Plasticity Index determinations (ASTM D4318) were performed on samples of the subsurface soils to measure the range of water contents over which this material exhibits plasticity. The Plasticity Index was used to classify the soil in accordance with the Unified Soil Classification System and to evaluate the soil expansion potential. Results of these tests are shown on the boring logs at the appropriate sample depths.

Consolidation: One consolidation test (ASTM D2435) was performed on a relatively undisturbed sample of the subsurface clayey soils to assist in evaluating the compressibility property of this soil. Results of the consolidation test are presented graphically in this appendix.

Corrosivity Testing: Three samples of the subsurface soils were tested for water soluble sulfate content (ASTM D4327), chloride content (ASTM D4327), pH (ASTM G51), and saturated resistivity (ASTM G57). Results of these tests are attached in this appendix.

Plasticity Index (ASTM D4318) Testing Summary



Symbol	Boring No.	Depth (ft)	Natural Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index	Passing No. 200 (%)	Group Name (USCS - ASTM D2487)
⊕	EB-2	2.0	19	39	17	22	—	Lean Clay with Gravel (CL) [Fill]
⊞	EB-3	3.5	23	44	20	24	—	Lean Clay (CL)

CORNERSTONE EARTH GROUP

Plasticity Index Testing Summary

Washington Industrial Facility
14273 Washington Avenue
San Leandro, CA

Project Number: 1262-2-1

Figure Number: Figure B1

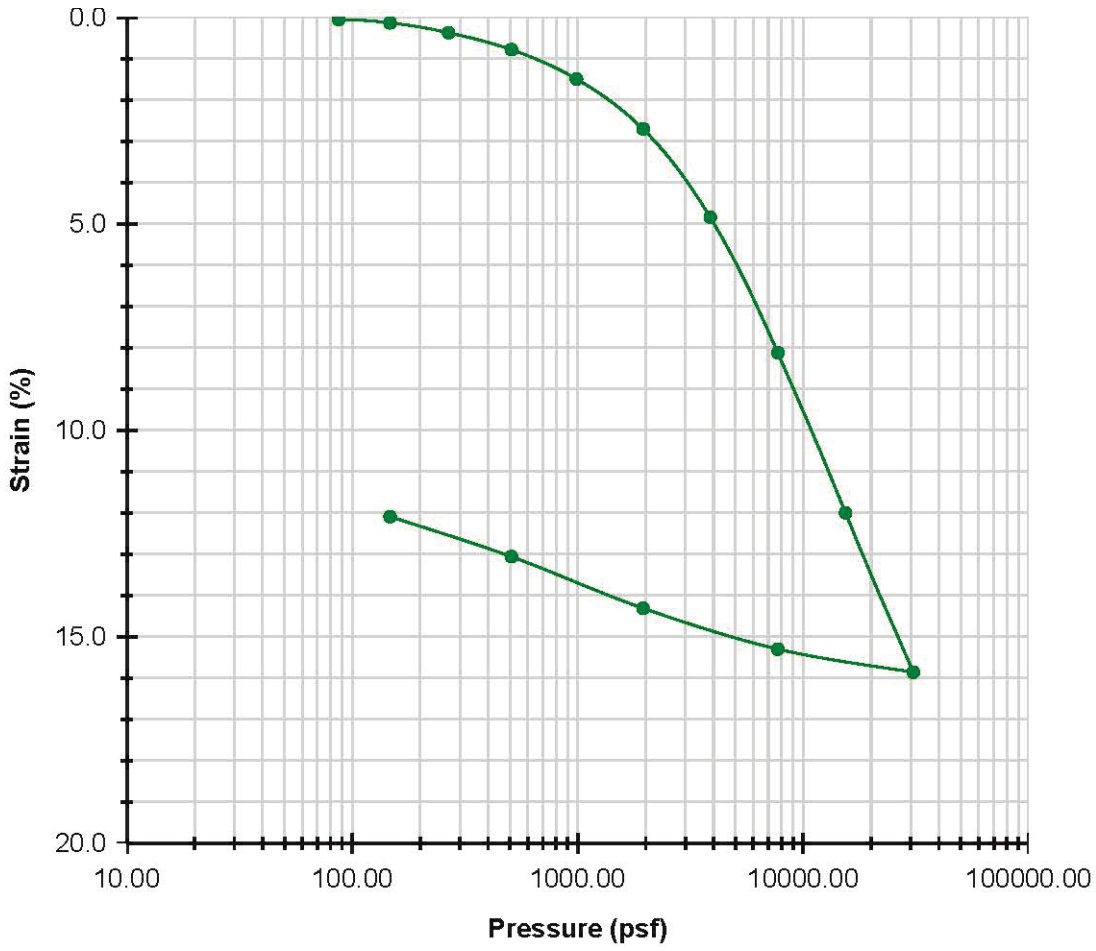
Date: March 2021

Drawn By: FLL

Consolidation Test ASTM D2435

Boring: EB-3 **Sample:** 6 **Depth:** 15.5

Description: Lean Clay with Sand (CL)



	BEFORE	AFTER
Moisture (%)	26.2	19.9
Dry Density (pcf)	95.7	110.1
Saturation (%)	92.0	100.0
Void Ratio	0.77	0.54

(A) Stress Strain Curve

CORNERSTONE EARTH GROUP

Strain-Log Curve - EB-3 @ 15.5'

Washington Industrial Facility
14273 Washington Avenue
San Leandro, CA

Project Number: 1262-2-1

Figure Number: Figure B2

Date: March 2021

Drawn By: FLL

Corrosivity Tests Summary

CORNERSTONE EARTH GROUP

Job Number	1262-2-1	Date Tested	3/8/2021
Job Name	Washington Avenue Industrial Facility	Tested By	BBA, FL
Location	San Leandro, CA		

Sample I.D.			Soil Visual Description	Moisture Content	pH	Temp. at Testing	Resistivity (Ohm-cm)		Chloride	Sulfate
							Corrected to 15.5 C°		Dry Wt.	Dry Wt.
Boring	Sample No.	Depth, ft.		%		C°	As Received	Saturated	mg/kg	mg/kg
				ASTM D2216	ASTM G51		G57	ASTM G57	ASTM D4327	ASTM D4327
EB-1	3C	6.0	Brown Lean Clay with Sand (CL)	24	6.3	22.2	-	1,080	9	112
EB-2	2A	3.5	Dark Brown Lean Clay (CL)	21	6.9	23.5	-	1,488	11	28
EB-3	1B	2.0	Dark Brown Lean Clay (CL) [Fill]	22	7.6	23.8	-	1,328	25	124

APPENDIX C: LIQUEFACTION ANALYSES CALCULATIONS

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CPT No.	1

PGA (A_{max})	1.00

Total Settlement:	0.28	(Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	$CRR_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
0.490	114.910	0.876	58.8	58.8	651.374	0.762	1.28		Unsaturated	0.0			108.61	1.70	184.64	184.64	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.660	165.880	1.425	79.2	79.2	810.214	0.859	1.28		Unsaturated	0.0			156.79	1.70	266.54	266.54	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.820	103.040	1.506	98.4	98.4	451.412	1.462	1.61		Unsaturated	0.0			97.39	1.70	165.57	165.57	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.980	64.390	1.694	117.6	117.6	257.923	2.634	1.95		Unsaturated	19.2			60.86	1.70	103.46	138.88	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.150	51.110	1.456	138.0	138.0	188.909	2.852	2.06		Unsaturated	27.6			48.31	1.70	82.12	130.71	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.310	52.810	1.122	157.2	157.2	182.859	2.128	1.96		Unsaturated	20.1			49.91	1.70	84.86	119.98	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.480	60.000	0.688	177.6	177.6	195.460	1.148	1.74		Unsaturated	2.2			56.71	1.70	96.41	96.41	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.640	75.350	0.568	196.8	196.8	233.225	0.755	1.56		Unsaturated	0.0			71.22	1.70	121.07	121.07	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.800	58.600	0.647	216.0	216.0	173.038	1.106	1.76		Unsaturated	4.2			55.39	1.70	94.16	94.19	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.970	36.620	0.668	236.4	236.4	103.220	1.829	2.08		Unsaturated	29.2			34.61	1.70	58.84	105.14	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.130	28.390	0.653	255.6	255.6	76.860	2.310	2.24		Unsaturated	42.2			26.83	1.70	45.62	99.89	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.300	17.860	0.609	276.0	276.0	46.380	3.438	2.52		Unsaturated	64.4			16.88	1.70	28.70	86.52	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.460	15.870	0.566	295.2	295.2	39.786	3.603	2.58		Unsaturated	69.4			15.00	1.70	25.50	83.43	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.620	13.700	0.518	314.4	314.4	48.623	3.824	2.54		Unsaturated	65.8			12.95	1.70	22.01	78.23	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.790	10.980	0.434	334.8	334.8	37.150	4.009	2.63		Unsaturated	73.7			10.38	1.70	17.64	74.01	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.950	9.700	0.332	354.0	354.0	31.466	3.481	2.64		Unsaturated	74.6			9.17	1.70	15.59	71.49	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.120	9.020	0.235	374.4	374.4	28.063	2.664	2.61		Unsaturated	71.5			8.53	1.70	14.49	69.60	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.280	8.250	0.208	393.6	393.6	24.706	2.585	2.64		Unsaturated	74.4			7.80	1.70	13.26	68.44	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.440	6.960	0.176	412.8	412.8	20.040	2.612	2.72		Unsaturated	80.3			6.58	1.70	11.18	66.59	1.00	0.649	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.610	5.440	0.178	433.2	433.2	24.115	3.412	2.73		Unsaturated	81.1			5.14	1.70	8.74	63.51	1.00	0.649	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.770	4.150	0.156	452.4	452.4	17.347	3.971	2.88		Unsaturated	93.3			3.92	1.70	6.67	62.10	1.00	0.649	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.940	4.090	0.129	472.8	472.8	16.301	3.335	2.85		Unsaturated	91.2			3.87	1.70	6.57	61.78	1.00	0.649	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.100	2.880	0.130	492.0	492.0	10.707	4.920	3.10		Unsaturated	100.0			2.72	1.70	4.63	60.00	1.00	0.648	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.270	3.190	0.144	512.4	512.4	11.451	4.901	3.08		Unsaturated	100.0			3.02	1.70	5.13	60.65	1.00	0.648	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.430	3.660	0.139	531.6	531.6	12.770	4.101	2.99		Unsaturated	100.0			3.46	1.70	5.88	61.64	1.00	0.648	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.590	4.020	0.148	550.8	550.8	13.597	3.958	2.96		Unsaturated	99.8			3.80	1.70	6.46	62.38	1.00	0.648	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.760	3.970	0.152	571.2	571.2	12.901	4.117	2.99		Unsaturated	100.0			3.75	1.70	6.38	62.29	1.00	0.647	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.920	3.570	0.181	590.4	590.4	11.093	5.521	3.12		Unsaturated	100.0			3.37	1.70	5.74	61.45	1.00	0.647	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.090	3.280	0.262	610.8	610.8	9.740	8.818	3.29		Unsaturated	100.0			3.10	1.70	5.27	60.84	1.00	0.647	1.097	n.a.	n.a.	n.a.	0.00	0.00
5.250	4.570	0.387	630.0	630.0	13.508	9.098	3.20		Unsaturated	100.0			4.32	1.70	7.34	63.56	0.99	0.647	1.097	n.a.	n.a.	n.a.	0.00	0.00
5.410	7.930	0.472	649.2	649.2	23.430	6.201	2.91		Unsaturated	95.7			7.50	1.70	12.74	70.27	0.99	0.646	1.099	n.a.	n.a.	n.a.	0.00	0.00
5.580	8.760	0.514	669.6	669.6	25.165	6.105	2.88		Unsaturated	93.5			8.28	1.70	14.08	71.81	0.99	0.646	1.098	n.a.	n.a.	n.a.	0.00	0.00
5.740	10.050	0.556	688.8	688.8	28.181	5.731	2.83		Unsaturated	89.2			9.50	1.70	16.15	74.09	0.99	0.646	1.097	n.a.	n.a.	n.a.	0.00	0.00
5.910	12.350	0.651	709.2	709.2	33.828	5.430	2.75		Unsaturated	83.4			11.67	1.70	19.84	78.24	0.99	0.646	1.098	n.a.	n.a.	n.a.	0.00	0.00
6.070	14.400	0.732	728.4	728.4	38.539	5.216	2.70		Unsaturated	79.2			13.61	1.70	23.14	81.97	0.99	0.645	1.098	n.a.	n.a.	n.a.	0.00	0.00
6.230	15.340	0.788	747.6	747.6	40.038	5.263	2.69		Unsaturated	78.5			14.50	1.70	24.65	83.83	0.99	0.645	1.097	n.a.	n.a.	n.a.	0.00	0.00
6.400	15.270	0.825	768.0	768.0	38.766	5.543	2.72		Unsaturated	80.6			14.43	1.70	24.54	83.98	0.99	0.645	1.095	n.a.	n.a.	n.a.	0.00	0.00
6.560	15.580	0.849	787.2	787.2	38.583	5.593	2.72		Unsaturated	80.9			14.73	1.70	24.98	84.60	0.99	0.645	1.093	n.a.	n.a.	n.a.	0.00	0.00
6.730	15.830	0.853	807.6	807.6	38.203	5.528	2.72		Unsaturated	80.9			14.96	1.67	25.03	84.66	0.99	0.644	1.091	n.a.	n.a.	n.a.	0.00	0.00
6.890	14.980	0.838	826.8	826.8	35.236	5.750	2.76		Unsaturated	83.8			14.16	1.66	23.48	83.03	0.99	0.644	1.087	n.a.	n.a.	n.a.	0.00	0.00
7.050	14.200	0.799	846.0	846.0	32.570	5.799	2.79		Unsaturated	85.9			13.42	1.64	22.07	81.44	0.99	0.644	1.084	n.a.	n.a.	n.a.	0.00	0.00
7.220	13.400	0.737	866.4	866.4	29.933	5.686	2.81		Unsaturated	87.5			12.67	1.63	20.64	79.76	0.99	0.644	1.081	n.a.	n.a.	n.a.	0.00	0.00
7.380	12.350	0.661	885.6	885.6	26.891	5.554	2.83		Unsaturated	89.6			11.67	1.62	18.88	77.70	0.99	0.643	1.078	n.a.	n.a.	n.a.	0.00	0.00
7.550	11.890	0.619	906.0	906.0	25.247	5.414	2.84		Unsaturated	90.6			11.24	1.60	18.00	76.64	0.99	0.643	1.075	n.a.	n.a.	n.a.	0.00	0.00
7.710	11.730	0.583	925.2	925.2	24.357	5.172	2.84		Unsaturated	90.4			11.09	1.58	17.57	76.07	0.99	0.643	1.073	n.a.	n.a.	n.a.	0.00	0.00
7.870	11.210	0.521	944.4	944.4	22.740	4.847	2.85		Unsaturated	90.6			10.60	1.57	16.64	74.89	0.99	0.642	1.070	n.a.	n.a.	n.a.	0.00	0.00
8.040	10.560	0.355	964.8	964.8	20.891	3.518	2.78		Unsaturated	85.6			9.98	1.56	15.56	72.93	0.99	0.642	1.067	n.a.	n.a.	n.a.	0.00	0.00
8.200	8.750	0.335	984.0	984.0	16.785	4.055	2.90		Unsaturated	94.6			8.27	1.55	12.82	70.28	0.99	0.642	1.064	n.a.	n.a.	n.a.	0.00	0.00
8.370	7.710	0.300	1004.4	1004.4	14.352	4.159	2.96		Unsaturated	99.4			7.29	1.54	11.21	68.57	0.99	0.642	1.062	n.a.	n.a.	n.a.	0.00	0.00
8.530	7.320	0.311	1023.6	1023.6	13.302	4.562	3.01		Unsaturated	100.0			6.92	1.52	10.54	67.75	0.99	0.641	1.060	n.a.	n.a.	n.a.	0.00	0.00
8.690	6.660	0.267	1042.8	1042.8	11.773	4.353	3.03		Unsaturated	100.0			6.29	1.51	9.52	66.41	0.99	0.641	1.058	n.a.	n.a.	n.a.	0.00	0.00
8.860	6.030	0.270	1063.2	1063.2	10.343	4.914	3.11		Unsaturated	100.0			5.70	1.50	8.54	65.13	0.99	0.641	1.056	n.a.	n.a.	n.a.	0.00	0.00
9.020	8.920	0.263	1082.4	1082.4	15.482	3.133	2.85		Unsaturated	91.3			8.43	1.47	12.40	69.41	0.99	0.640	1.056	n.a.	n.a.	n.a.	0.00	0.00
9.190	11.260	0.252	1102.8	1102.8	19.421	2.357	2.70		Unsaturated	79.1			10.64	1.45	15.41	71.92	0.98	0.640	1.056	n.a.	n.a.	n.a.	0.00	0.00
9.350	16.380	0.162	1122.0	1122.0	20.533	1.027	2.48		Unsaturated	61.7			15.48	1.42	21.99	77.30	0.98	0.640	1.056	n.a.	n.a.	n.a.	0.00	0.00
9.510	15.890	0.465	1141.2	1141.2	26.848	3.037	2.66		Unsaturated	75.6			15.02	1.40	21.08	78.78	0.98	0.640	1.056	n.a.	n.a.	n.a.	0.00	0.00
9.680	25.750	0.776	1161.6	1161.6	36.200	3.083	2.56		Unsaturated	68.1			24.34	1.36	33.13	93.02	0.98	0.639	1.060	n.a.	n.a.	n.a.	0.00	0.00
9.840	27.420	0.776	1180.8	1180.8	33.947	2.892	2.57		Unsaturated	68.3			25.92	1.35	34.87	95.31	0.98	0.639	1.060	n.a.	n.a.	n.a.	0.00	0.00
10.010	6.370	0.446	1201.2	1201.2	9.606	7.737	3.26		Unsaturated	100.0			6.02	1.40	8.40	64.94	0.98	0.639	1.046	n.a.	n.a.	n.a.	0.00	0.00
10.170	5.410	0.196	1220.4	1220.4	7.866	4.081	3.16		Unsaturated	100.0			5.11	1.39	7.09	63.22	0.98	0.638	1.044	n.a.	n.a.	n.a.	0.00	0.00
10.330	5.170	0.194	1239.6	1239.6	7.341	4.259	3.19		Unsaturated	100.0			4.89	1.37	6.72	62.74	0.98	0.638	1.042	n.a.	n.a.	n.a.	0.00	0.00
10.500	5.090	0.253	1260.0	1260.0	7.079	5.675	3.28		Unsaturated	100.0			4.81	1.36	6.55	62.52	0.98	0.638	1.041	n.a.	n.a.	n.a.	0.00	0.00
10.660	10.510	0.256	1279.2	1279.2	15.432	2.589	2.81		Unsaturated	87.5			9.93	1.33	13.26	70.13	0.98	0.638	1.042	n.a.	n.a.	n.a.	0.00	0.00
10.830	10.450	0.249	1299.6	1299.6	15.082	2.540	2.81		Unsaturated	87.7			9.88	1.32	13.07	69.91	0.98	0.637	1.041	n.a.	n.a.	n.a.	0.00	0.00
10.990	11.510	0.328	1318.8	1318.8	16.455	3.026	2.82		Unsaturated	88.9			10.88	1.31	14.24	71.56	0.98	0.637	1.040	n.a.	n.a.	n.a.	0.00	0.00
11.150	12.950	0.496	1338.0	1338.0	18.357	4.041	2.86		Unsaturated	92.1			12.24	1.29	15.84	73.98	0.98	0.637	1.040	n.a.	n.a.	n.a.	0.00	0.00
11.320	10.810	0.654	1358.4	1358.4	14.916	6.460	3.07		Unsaturated	100.0			10.22	1.29	13.16	71.17	0.98	0.636	1.038	n.a.	n.a.	n.a.	0.00	0.00
11.480	10.440	0.565	1377.6	1377.6	14.157	5.789	3.05		Unsaturated	100.0			9.87	1.28	12.61	70.46	0.98	0.636	1.036	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 1

PGA (A_{max}) 1.00

Total Settlement: 0.28 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	CRR$_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
11.650	10.850	0.335	1398.0	1398.0	14.522	3.299	2.89		Unsaturated	94.2			10.26	1.27	13.00	70.46	0.98	0.636	1.035	n.a.	n.a.	n.a.	0.00	0.00
11.810	17.040	0.099	1417.2	1417.2	18.862	0.606	2.41		Unsaturated	56.0			16.11	1.25	20.19	73.49	0.98	0.635	1.035	n.a.	n.a.	n.a.	0.00	0.00
11.980	19.860	0.064	1437.6	1437.6	21.949	0.335	2.26		Unsaturated	43.4			18.77	1.24	23.36	72.74	0.98	0.635	1.033	n.a.	n.a.	n.a.	0.00	0.00
12.140	18.740	0.061	1456.8	1456.8	20.518	0.336	2.28		Sand	45.7			17.71	1.24	21.90	71.96	0.98	0.639	1.032	0.109	0.130	0.20	0.04	0.09
12.300	15.090	0.132	1476.0	1476.0	16.242	0.921	2.55		Sand	67.1			14.26	1.23	17.49	72.66	0.98	0.643	1.031	0.109	0.130	0.20	0.04	0.09
12.470	12.280	0.175	1496.4	1496.4	15.413	1.518	2.68		Clay	77.2			11.61	1.10	n.a.	n.a.	0.98	0.647	n.a.	n.a.	n.a.	n.a.	0.00	0.00
12.630	9.900	0.227	1515.6	1515.6	12.064	2.485	2.88		Clay	93.7			9.36	1.09	n.a.	n.a.	0.98	0.651	n.a.	n.a.	n.a.	n.a.	0.00	0.00
12.800	5.700	0.246	1536.0	1536.0	6.422	4.978	3.28		Clay	100.0			5.39	1.09	n.a.	n.a.	0.97	0.655	n.a.	n.a.	n.a.	n.a.	0.00	0.00
12.960	4.240	0.240	1555.2	1555.2	4.453	6.923	3.49		Clay	100.0			4.01	1.08	n.a.	n.a.	0.97	0.658	n.a.	n.a.	n.a.	n.a.	0.00	0.00
13.120	3.310	0.213	1574.4	1574.4	3.205	8.431	3.66		Clay	100.0			3.13	1.08	n.a.	n.a.	0.97	0.662	n.a.	n.a.	n.a.	n.a.	0.00	0.00
13.290	3.860	0.266	1594.8	1594.8	3.841	8.695	3.60		Clay	100.0			3.65	1.08	n.a.	n.a.	0.97	0.666	n.a.	n.a.	n.a.	n.a.	0.00	0.00
13.450	5.600	0.310	1614.0	1614.0	5.939	6.470	3.38		Clay	100.0			5.29	1.07	n.a.	n.a.	0.97	0.670	n.a.	n.a.	n.a.	n.a.	0.00	0.00
13.620	5.110	0.313	1634.4	1634.4	5.253	7.280	3.45		Clay	100.0			4.83	1.07	n.a.	n.a.	0.97	0.673	n.a.	n.a.	n.a.	n.a.	0.00	0.00
13.780	4.410	0.268	1653.6	1653.6	4.334	7.485	3.52		Clay	100.0			4.17	1.07	n.a.	n.a.	0.97	0.677	n.a.	n.a.	n.a.	n.a.	0.00	0.00
13.940	4.730	0.254	1672.8	1672.8	4.655	6.531	3.46		Clay	100.0			4.47	1.06	n.a.	n.a.	0.97	0.680	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.110	4.490	0.229	1693.2	1693.2	4.304	6.294	3.48		Clay	100.0			4.24	1.06	n.a.	n.a.	0.97	0.684	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.270	4.150	0.234	1712.4	1712.4	3.847	7.092	3.55		Clay	100.0			3.92	1.06	n.a.	n.a.	0.97	0.687	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.440	4.390	0.231	1732.8	1732.8	4.067	6.559	3.51		Clay	100.0			4.15	1.05	n.a.	n.a.	0.97	0.690	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.600	4.820	0.268	1752.0	1752.0	4.502	6.803	3.49		Clay	100.0			4.56	1.05	n.a.	n.a.	0.97	0.694	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.760	5.570	0.331	1771.2	1771.2	5.290	7.072	3.44		Clay	100.0			5.26	1.05	n.a.	n.a.	0.97	0.697	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.930	6.320	0.301	1791.6	1791.6	6.055	5.557	3.33		Clay	100.0			5.97	1.04	n.a.	n.a.	0.97	0.700	n.a.	n.a.	n.a.	n.a.	0.00	0.00
15.090	7.820	0.287	1810.8	1810.8	7.637	4.146	3.17		Clay	100.0			7.39	1.04	n.a.	n.a.	0.97	0.703	n.a.	n.a.	n.a.	n.a.	0.00	0.00
15.260	8.320	0.387	1831.2	1831.2	8.087	5.220	3.21		Clay	100.0			7.86	1.04	n.a.	n.a.	0.97	0.706	n.a.	n.a.	n.a.	n.a.	0.00	0.00
15.420	9.600	0.536	1850.4	1850.4	9.376	6.177	3.21		Clay	100.0			9.07	1.04	n.a.	n.a.	0.97	0.709	n.a.	n.a.	n.a.	n.a.	0.00	0.00
15.580	22.090	0.678	1869.6	1869.6	22.631	3.203	2.73		Clay	81.4			20.88	1.03	n.a.	n.a.	0.97	0.712	n.a.	n.a.	n.a.	n.a.	0.00	0.00
15.750	21.420	0.479	1890.0	1890.0	21.667	2.339	2.66		Clay	75.9			20.25	1.03	n.a.	n.a.	0.97	0.715	n.a.	n.a.	n.a.	n.a.	0.00	0.00
15.910	12.810	0.303	1909.2	1909.2	12.419	2.557	2.88		Clay	93.4			12.11	1.03	n.a.	n.a.	0.96	0.718	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.080	7.920	0.193	1929.6	1929.6	7.209	2.769	3.10		Clay	100.0			7.49	1.02	n.a.	n.a.	0.96	0.721	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.240	6.050	0.152	1948.8	1948.8	5.209	2.989	3.23		Clay	100.0			5.72	1.02	n.a.	n.a.	0.96	0.724	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.400	5.990	0.156	1968.0	1968.0	5.087	3.124	3.25		Clay	100.0			5.66	1.02	n.a.	n.a.	0.96	0.726	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.570	6.640	0.149	1988.4	1988.4	5.679	2.639	3.17		Clay	100.0			6.28	1.02	n.a.	n.a.	0.96	0.729	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.730	6.470	0.141	2007.6	2007.6	5.446	2.572	3.18		Clay	100.0			6.12	1.01	n.a.	n.a.	0.96	0.732	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.900	6.020	0.178	2028.0	2028.0	4.937	3.546	3.29		Clay	100.0			5.69	1.01	n.a.	n.a.	0.96	0.734	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.060	5.940	0.244	2047.2	2047.2	4.803	4.971	3.38		Clay	100.0			5.61	1.01	n.a.	n.a.	0.96	0.737	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.220	9.610	0.268	2066.4	2066.4	8.301	3.119	3.07		Clay	100.0			9.08	1.01	n.a.	n.a.	0.96	0.739	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.390	11.640	0.291	2086.8	2086.8	10.156	2.747	2.97		Clay	100.0			11.00	1.00	n.a.	n.a.	0.96	0.742	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.550	8.260	0.334	2106.0	2106.0	6.844	4.637	3.24		Clay	100.0			7.81	1.00	n.a.	n.a.	0.96	0.744	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.720	8.510	0.258	2127.0	2119.5	7.027	3.458	3.16		Clay	100.0			8.04	1.00	n.a.	n.a.	0.96	0.747	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.880	10.180	0.407	2147.0	2129.5	8.553	4.468	3.15		Clay	100.0			9.62	1.00	n.a.	n.a.	0.96	0.749	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.040	9.710	0.427	2167.0	2139.5	8.064	4.952	3.20		Clay	100.0			9.18	1.00	n.a.	n.a.	0.96	0.752	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.210	28.660	0.609	2188.3	2150.2	25.847	2.209	2.58		Sand	69.8	60.55	1.8	108.99	0.99	108.39	190.53	0.96	0.754	0.996	1.153	2.527	3.35	0.00	0.00
18.370	64.060	0.861	2208.3	2160.2	58.893	1.367	2.17		Sand	36.9		1.8	108.99	0.99	108.16	173.47	0.96	0.756	0.996	0.567	1.122	1.48	0.00	0.00
18.540	38.260	0.910	2229.5	2170.8	34.663	2.450	2.51		Sand	64.0	60.55	1.8	108.99	0.99	108.03	188.40	0.96	0.759	0.994	1.043	2.281	3.01	0.00	0.00
18.700	22.570	0.688	2249.5	2180.9	19.667	3.210	2.78		Clay	85.2			21.33	0.99	n.a.	n.a.	0.96	0.761	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.860	15.810	0.524	2269.5	2190.9	13.397	3.571	2.94		Clay	98.1			14.94	0.99	n.a.	n.a.	0.95	0.763	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.030	57.610	0.438	2290.8	2201.5	52.322	0.776	2.07		Sand	28.9	64.41	1.8	115.94	0.99	114.25	171.03	0.95	0.765	0.992	0.521	1.007	1.32	0.00	0.00
19.190	68.150	0.532	2310.8	2211.5	61.939	0.794	2.02		Sand	24.4		1.8	115.95	0.98	114.00	162.89	0.95	0.767	0.992	0.403	0.732	0.95	0.01	0.02
19.360	43.520	0.466	2332.0	2222.2	39.064	1.099	2.26		Sand	44.0	64.41	1.8	115.94	0.98	113.98	186.47	0.95	0.769	0.989	0.955	2.078	2.70	0.00	0.00
19.520	21.010	0.388	2352.0	2232.2	17.771	1.956	2.69		Clay	77.9			19.86	0.99	n.a.	n.a.	0.95	0.771	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.690	11.010	0.286	2373.3	2242.8	8.760	2.910	3.04		Clay	100.0			10.41	0.98	n.a.	n.a.	0.95	0.773	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.850	7.890	0.157	2393.3	2252.9	5.942	2.340	3.13		Clay	100.0			7.46	0.98	n.a.	n.a.	0.95	0.775	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.010	7.340	0.169	2413.3	2262.9	5.421	2.749	3.20		Clay	100.0			6.94	0.98	n.a.	n.a.	0.95	0.777	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.180	7.600	0.189	2434.5	2273.5	5.615	2.967	3.20		Clay	100.0			7.18	0.98	n.a.	n.a.	0.95	0.779	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.340	8.730	0.156	2454.5	2283.5	6.571	2.074	3.07		Clay	100.0			8.25	0.98	n.a.	n.a.	0.95	0.781	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.510	8.080	0.149	2475.8	2294.2	5.965	2.181	3.11		Clay	100.0			7.64	0.98	n.a.	n.a.	0.95	0.783	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.670	7.280	0.158	2495.8	2304.2	5.236	2.613	3.20		Clay	100.0			6.88	0.98	n.a.	n.a.	0.95	0.785	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.830	7.640	0.292	2515.8	2314.2	5.516	4.580	3.31		Clay	100.0			7.22	0.98	n.a.	n.a.	0.95	0.787	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.000	10.050	0.475	2537.0	2324.8	7.554	5.410	3.25		Clay	100.0			9.50	0.98	n.a.	n.a.	0.95	0.788	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.160	20.870	0.527	2557.0	2334.9	16.782	2.690	2.79		Clay	85.9			19.73	0.97	n.a.	n.a.	0.95	0.790	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.330	14.290	0.355	2578.3	2345.5	11.086	2.732	2.94		Clay	98.0			13.51	0.97	n.a.	n.a.	0.95	0.792	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.490	9.870	0.331	2598.3	2355.5	7.277	3.858	3.17		Clay	100.0			9.33	0.97	n.a.	n.a.	0.95	0.794	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.650	8.640	0.299	2618.3	2365.5	6.198	4.073	3.24		Clay	100.0			8.17	0.97	n.a.	n.a.	0.95	0.795	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.820	8.620	0.257	2639.5	2376.2	6.145	3.514	3.21		Clay	100.0			8.15	0.97	n.a.	n.a.	0.94	0.797	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.980	8.300	0.238	2659.5	2386.2	5.842	3.416	3.22		Clay	100.0			7.84	0.97	n.a.	n.a.	0.94	0.799	n.a.	n.a.	n.a.	n.a.	0.00	0.00
22.150	8.420	0.248	2680.8	2396.8	5.907	3.504	3.22		Clay	100.0			7.96	0.97	n.a.	n.a.	0.94	0.800	n.a.	n.a.	n.a.	n.a.	0.00	0.00
22.310	8.280	0.237	2700.8	2406.8	5.758	3.414	3.23		Clay	100.0			7.83	0.97	n.a.	n.a.	0.94	0.802	n.a.	n.a.	n.a.	n.a.	0.00	0.00
22.470	8.120	0.218	2720.8	2416.9	5.594	3.231	3.23		Clay	100.0			7.67	0.97	n.a.	n.a.	0.94	0.803	n.a.	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 1

PGA (A_{max}) 1.00

Total Settlement: 0.28 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	CRR$_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
22.640	8.220	0.168	2742.0	2427.5	5.643	2.456	3.16		Clay	100.0			7.77	0.96	n.a.	n.a.	0.94	0.805	n.a.	n.a.	n.a.	n.a.	0.00	0.00
22.800	8.550	0.191	2762.0	2437.5	5.882	2.657	3.16		Clay	100.0			8.08	0.96	n.a.	n.a.	0.94	0.806	n.a.	n.a.	n.a.	n.a.	0.00	0.00
22.970	8.270	0.237	2783.3	2448.2	5.619	3.447	3.24		Clay	100.0			7.82	0.96	n.a.	n.a.	0.94	0.808	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.130	8.260	0.247	2803.3	2458.2	5.580	3.606	3.25		Clay	100.0			7.81	0.96	n.a.	n.a.	0.94	0.809	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.290	8.260	0.255	2823.3	2468.2	5.549	3.721	3.26		Clay	100.0			7.81	0.96	n.a.	n.a.	0.94	0.811	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.460	8.090	0.242	2844.5	2478.8	5.380	3.635	3.27		Clay	100.0			7.65	0.96	n.a.	n.a.	0.94	0.812	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.620	8.070	0.246	2864.5	2488.9	5.334	3.705	3.27		Clay	100.0			7.63	0.96	n.a.	n.a.	0.94	0.814	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.790	7.970	0.231	2885.8	2499.5	5.223	3.541	3.27		Clay	100.0			7.53	0.96	n.a.	n.a.	0.94	0.815	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.950	7.770	0.222	2905.8	2509.5	5.035	3.511	3.28		Clay	100.0			7.34	0.96	n.a.	n.a.	0.94	0.816	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.110	7.410	0.226	2925.8	2519.5	4.721	3.805	3.33		Clay	100.0			7.00	0.95	n.a.	n.a.	0.94	0.818	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.280	7.250	0.214	2947.0	2530.2	4.566	3.703	3.33		Clay	100.0			6.85	0.95	n.a.	n.a.	0.94	0.819	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.440	7.400	0.215	2967.0	2540.2	4.658	3.636	3.32		Clay	100.0			6.99	0.95	n.a.	n.a.	0.93	0.820	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.610	7.390	0.199	2988.3	2550.8	4.623	3.382	3.31		Clay	100.0			6.98	0.95	n.a.	n.a.	0.93	0.821	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.770	9.090	0.277	3008.3	2560.8	5.925	3.653	3.23		Clay	100.0			8.59	0.95	n.a.	n.a.	0.93	0.823	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.930	9.800	0.529	3028.3	2570.9	6.446	6.381	3.34		Clay	100.0			9.26	0.95	n.a.	n.a.	0.93	0.824	n.a.	n.a.	n.a.	n.a.	0.00	0.00
25.100	17.760	0.797	3049.5	2581.5	12.578	4.911	3.04		Clay	100.0			16.79	0.95	n.a.	n.a.	0.93	0.825	n.a.	n.a.	n.a.	n.a.	0.00	0.00
25.260	28.330	0.899	3069.5	2591.5	20.679	3.353	2.77		Clay	84.8			26.78	0.95	n.a.	n.a.	0.93	0.826	n.a.	n.a.	n.a.	n.a.	0.00	0.00
25.430	44.400	0.587	3090.8	2602.2	36.526	1.369	2.34		Sand	50.2		1.8	75.54	0.91	69.09	133.50	0.93	0.827	0.971	0.209	0.304	0.37	0.02	0.05
25.590	40.670	0.699	3110.8	2612.2	33.274	1.786	2.44		Sand	58.3	41.97	1.8	75.55	0.91	69.06	136.60	0.93	0.829	0.970	0.220	0.326	0.39	0.02	0.04
25.750	22.740	0.397	3130.8	2622.2	16.150	1.874	2.71		Clay	79.8			21.49	0.94	n.a.	n.a.	0.93	0.830	n.a.	n.a.	n.a.	n.a.	0.00	0.00
25.920	14.590	0.291	3152.0	2632.8	9.886	2.237	2.93		Clay	97.5			13.79	0.94	n.a.	n.a.	0.93	0.831	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.080	11.660	0.331	3172.0	2642.8	7.624	3.288	3.12		Clay	100.0			11.02	0.94	n.a.	n.a.	0.93	0.832	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.250	13.860	0.423	3193.3	2653.5	9.243	3.448	3.06		Clay	100.0			13.10	0.94	n.a.	n.a.	0.93	0.833	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.410	14.710	0.559	3213.3	2663.5	9.839	4.268	3.09		Clay	100.0			13.90	0.94	n.a.	n.a.	0.93	0.834	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.570	14.620	0.633	3233.3	2673.5	9.728	4.871	3.13		Clay	100.0			13.82	0.94	n.a.	n.a.	0.93	0.835	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.740	15.370	0.672	3254.5	2684.2	10.240	4.891	3.11		Clay	100.0			14.53	0.94	n.a.	n.a.	0.93	0.836	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.900	16.510	0.741	3274.5	2694.2	11.041	4.982	3.09		Clay	100.0			15.60	0.94	n.a.	n.a.	0.93	0.837	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.070	16.630	0.751	3295.8	2704.8	11.078	5.013	3.09		Clay	100.0			15.72	0.94	n.a.	n.a.	0.92	0.838	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.230	17.070	0.793	3315.8	2714.8	11.354	5.146	3.09		Clay	100.0			16.13	0.94	n.a.	n.a.	0.92	0.839	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.400	17.000	0.774	3337.0	2725.5	11.250	5.047	3.09		Clay	100.0			16.07	0.94	n.a.	n.a.	0.92	0.840	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.560	17.050	0.797	3357.0	2735.5	11.239	5.182	3.10		Clay	100.0			16.12	0.93	n.a.	n.a.	0.92	0.841	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.720	16.410	0.758	3377.0	2745.5	10.724	5.152	3.11		Clay	100.0			15.51	0.93	n.a.	n.a.	0.92	0.842	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.890	16.230	0.702	3398.3	2756.2	10.544	4.829	3.10		Clay	100.0			15.34	0.93	n.a.	n.a.	0.92	0.843	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.050	14.810	0.623	3418.3	2766.2	9.472	4.752	3.13		Clay	100.0			14.00	0.93	n.a.	n.a.	0.92	0.844	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.220	13.440	0.556	3439.5	2776.8	8.442	4.742	3.17		Clay	100.0			12.70	0.93	n.a.	n.a.	0.92	0.845	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.380	12.480	0.525	3459.5	2786.8	7.715	4.883	3.21		Clay	100.0			11.80	0.93	n.a.	n.a.	0.92	0.845	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.540	11.180	0.426	3479.5	2796.8	6.751	4.513	3.24		Clay	100.0			10.57	0.93	n.a.	n.a.	0.92	0.846	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.710	10.190	0.390	3500.8	2807.5	6.012	4.615	3.29		Clay	100.0			9.63	0.93	n.a.	n.a.	0.92	0.847	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.870	9.550	0.337	3520.8	2817.5	5.529	4.325	3.30		Clay	100.0			9.03	0.93	n.a.	n.a.	0.92	0.848	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.040	9.850	0.371	3542.0	2828.1	5.713	4.590	3.30		Clay	100.0			9.31	0.93	n.a.	n.a.	0.92	0.849	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.200	10.090	0.421	3562.0	2838.2	5.855	5.067	3.32		Clay	100.0			9.54	0.93	n.a.	n.a.	0.92	0.850	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.360	10.070	0.416	3582.0	2848.2	5.814	5.028	3.32		Clay	100.0			9.52	0.92	n.a.	n.a.	0.92	0.850	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.530	10.060	0.401	3603.3	2858.8	5.777	4.857	3.31		Clay	100.0			9.51	0.92	n.a.	n.a.	0.91	0.851	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.690	9.780	0.361	3623.3	2868.8	5.555	4.533	3.31		Clay	100.0			9.24	0.92	n.a.	n.a.	0.91	0.852	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.860	9.920	0.364	3644.5	2879.5	5.624	4.498	3.30		Clay	100.0			9.38	0.92	n.a.	n.a.	0.91	0.853	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.020	9.980	0.367	3664.5	2889.5	5.640	4.498	3.30		Clay	100.0			9.43	0.92	n.a.	n.a.	0.91	0.853	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.180	9.760	0.346	3684.5	2899.5	5.461	4.365	3.31		Clay	100.0			9.22	0.92	n.a.	n.a.	0.91	0.854	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.350	10.050	0.308	3705.8	2910.2	5.633	3.755	3.26		Clay	100.0			9.50	0.92	n.a.	n.a.	0.91	0.855	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.510	10.840	0.330	3725.8	2920.2	6.148	3.675	3.22		Clay	100.0			10.25	0.92	n.a.	n.a.	0.91	0.855	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.680	11.860	0.356	3747.0	2930.8	6.815	3.566	3.18		Clay	100.0			11.21	0.92	n.a.	n.a.	0.91	0.856	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.840	14.230	0.420	3767.0	2940.8	8.397	3.400	3.09		Clay	100.0			13.45	0.92	n.a.	n.a.	0.91	0.857	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.000	15.950	0.494	3787.0	2950.8	9.527	3.513	3.05		Clay	100.0			15.08	0.92	n.a.	n.a.	0.91	0.857	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.170	17.220	0.554	3808.3	2961.5	10.343	3.617	3.03		Clay	100.0			16.28	0.92	n.a.	n.a.	0.91	0.858	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.330	19.810	0.672	3828.3	2971.5	12.045	3.754	2.99		Clay	100.0			18.72	0.91	n.a.	n.a.	0.91	0.858	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.500	21.690	0.776	3849.5	2982.1	13.256	3.928	2.97		Clay	100.0			20.50	0.91	n.a.	n.a.	0.91	0.859	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.660	21.930	0.795	3869.5	2992.2	13.365	3.977	2.97		Clay	100.0			20.73	0.91	n.a.	n.a.	0.91	0.860	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.820	21.850	0.789	3889.5	3002.2	13.261	3.963	2.97		Clay	100.0			20.65	0.91	n.a.	n.a.	0.91	0.860	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.990	20.650	0.722	3910.8	3012.8	12.410	3.864	2.99		Clay	100.0			19.52	0.91	n.a.	n.a.	0.90	0.861	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.150	18.860	0.637	3930.8	3022.8	11.178	3.770	3.02		Clay	100.0			17.83	0.91	n.a.	n.a.	0.90	0.861	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.320	15.640	0.444	3952.0	3033.5	9.009	3.252	3.05		Clay	100.0			14.78	0.91	n.a.	n.a.	0.90	0.862	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.480	12.770	0.195	3972.0	3043.5	7.087	1.811	3.01		Clay	100.0			12.07	0.91	n.a.	n.a.	0.90	0.862	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.640	11.630	0.346	3992.0	3053.5	6.310	3.595	3.21		Clay	100.0			10.99	0.91	n.a.	n.a.	0.90	0.863	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.810	9.870	0.283	4013.3	3064.1	5.133	3.599	3.28		Clay	100.0			9.33	0.91	n.a.	n.a.	0.90	0.863	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.970	7.210	0.224	4033.3	3074.2	3.379	4.319	3.48		Clay	100.0			6.81	0.91	n.a.	n.a.	0.90	0.864	n.a.	n.a.	n.a.	n.a.	0.00	0.00
33.140	9.380	0.187	4054.5	3084.8	4.767	2.538	3.23		Clay	100.0			8.87	0.91	n.a.	n.a.	0.90	0.864	n.a.	n.a.	n.a.	n.a.	0.00	0.00
33.300	9.430	0.177	4074.5	3094.8	4.777	2.393	3.22		Clay	100.0			8.91	0.90	n.a.	n.a.	0.90	0.865	n.a.	n.a.	n.a.	n.a.	0.00	0.00
33.460	10.280	0.248	4094.5	3104.8	5.303	3.006	3.23		Clay	100.0			9.72	0.90	n.a.	n.a.	0.90	0.865	n.a.	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 1

PGA (A_{max}) 1.00

Total Settlement: 0.28 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	$CRR_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
33.630	11.230	0.361	4115.8	3115.5	5.888	3.934	3.25		Clay	100.0			10.61	0.90	n.a.	n.a.	0.90	0.866	n.a.	n.a.	n.a.	n.a.	0.00	0.00
33.790	12.650	0.574	4135.8	3125.5	6.771	5.427	3.28		Clay	100.0			11.96	0.90	n.a.	n.a.	0.90	0.866	n.a.	n.a.	n.a.	n.a.	0.00	0.00
33.960	13.640	0.569	4157.0	3136.1	7.373	4.920	3.23		Clay	100.0			12.89	0.90	n.a.	n.a.	0.90	0.867	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.120	13.490	0.542	4177.0	3146.2	7.248	4.756	3.23		Clay	100.0			12.75	0.90	n.a.	n.a.	0.90	0.867	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.280	13.690	0.425	4197.0	3156.2	7.345	3.666	3.16		Clay	100.0			12.94	0.90	n.a.	n.a.	0.90	0.867	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.450	13.030	0.399	4218.3	3166.8	6.897	3.657	3.18		Clay	100.0			12.32	0.90	n.a.	n.a.	0.89	0.868	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.610	13.200	0.376	4238.3	3176.8	6.976	3.391	3.16		Clay	100.0			12.48	0.90	n.a.	n.a.	0.89	0.868	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.780	13.500	0.386	4259.5	3187.5	7.134	3.397	3.15		Clay	100.0			12.76	0.90	n.a.	n.a.	0.89	0.869	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.940	13.270	0.445	4279.5	3197.5	6.962	3.997	3.20		Clay	100.0			12.54	0.90	n.a.	n.a.	0.89	0.869	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.100	12.890	0.431	4299.5	3207.5	6.697	4.010	3.21		Clay	100.0			12.18	0.90	n.a.	n.a.	0.89	0.869	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.270	12.950	0.405	4320.8	3218.1	6.705	3.756	3.20		Clay	100.0			12.24	0.90	n.a.	n.a.	0.89	0.870	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.430	13.030	0.314	4340.8	3228.2	6.728	2.887	3.13		Clay	100.0			12.32	0.89	n.a.	n.a.	0.89	0.870	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.600	13.030	0.271	4362.0	3238.8	6.699	2.493	3.10		Clay	100.0			12.32	0.89	n.a.	n.a.	0.89	0.870	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.760	12.690	0.249	4382.0	3248.8	6.463	2.371	3.10		Clay	100.0			11.99	0.89	n.a.	n.a.	0.89	0.871	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.930	12.590	0.280	4403.3	3259.5	6.374	2.692	3.14		Clay	100.0			11.90	0.89	n.a.	n.a.	0.89	0.871	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.090	12.800	0.326	4423.3	3269.5	6.477	3.080	3.16		Clay	100.0			12.10	0.89	n.a.	n.a.	0.89	0.871	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.250	13.920	0.414	4443.3	3279.5	7.134	3.542	3.16		Clay	100.0			13.16	0.89	n.a.	n.a.	0.89	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.420	15.360	0.491	4464.5	3290.1	7.980	3.741	3.13		Clay	100.0			14.52	0.89	n.a.	n.a.	0.89	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.580	16.610	0.543	4484.5	3300.1	8.707	3.779	3.10		Clay	100.0			15.70	0.89	n.a.	n.a.	0.89	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.750	17.560	0.564	4505.8	3310.8	9.247	3.685	3.08		Clay	100.0			16.60	0.89	n.a.	n.a.	0.89	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.910	18.320	0.576	4525.8	3320.8	9.671	3.585	3.05		Clay	100.0			17.32	0.89	n.a.	n.a.	0.88	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.070	19.070	0.634	4545.8	3330.8	10.086	3.773	3.05		Clay	100.0			18.02	0.89	n.a.	n.a.	0.88	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.240	18.790	0.641	4567.0	3341.5	9.880	3.883	3.07		Clay	100.0			17.76	0.89	n.a.	n.a.	0.88	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.400	18.530	0.625	4587.0	3351.5	9.689	3.848	3.07		Clay	100.0			17.51	0.89	n.a.	n.a.	0.88	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.570	17.890	0.590	4608.3	3362.1	9.271	3.787	3.08		Clay	100.0			16.91	0.89	n.a.	n.a.	0.88	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.730	17.330	0.579	4628.3	3372.1	8.906	3.857	3.10		Clay	100.0			16.38	0.88	n.a.	n.a.	0.88	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.890	18.270	0.728	4648.3	3382.2	9.429	4.563	3.12		Clay	100.0			17.27	0.88	n.a.	n.a.	0.88	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.060	18.600	0.697	4669.5	3392.8	9.588	4.283	3.10		Clay	100.0			17.58	0.88	n.a.	n.a.	0.88	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.220	19.250	0.584	4689.5	3402.8	9.936	3.455	3.03		Clay	100.0			18.19	0.88	n.a.	n.a.	0.88	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.390	18.670	0.543	4710.8	3413.5	9.559	3.330	3.04		Clay	100.0			17.65	0.88	n.a.	n.a.	0.88	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.550	18.030	0.499	4730.8	3423.5	9.151	3.187	3.04		Clay	100.0			17.04	0.88	n.a.	n.a.	0.88	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.710	19.170	0.706	4750.8	3433.5	9.783	4.201	3.09		Clay	100.0			18.12	0.88	n.a.	n.a.	0.88	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.880	20.970	0.781	4772.0	3444.1	10.792	4.203	3.06		Clay	100.0			19.82	0.88	n.a.	n.a.	0.88	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.040	24.220	0.759	4792.0	3454.1	12.636	3.476	2.95		Clay	99.1			22.89	0.88	n.a.	n.a.	0.88	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.210	24.110	0.663	4813.3	3464.8	12.528	3.055	2.92		Clay	96.7			22.79	0.88	n.a.	n.a.	0.87	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.370	22.330	0.665	4833.3	3474.8	11.462	3.338	2.98		Clay	100.0			21.11	0.88	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.530	22.280	0.832	4853.3	3484.8	11.394	4.191	3.04		Clay	100.0			21.06	0.88	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.700	22.990	0.878	4874.5	3495.5	11.760	4.272	3.03		Clay	100.0			21.73	0.88	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.860	24.510	0.821	4894.5	3505.5	12.588	3.721	2.97		Clay	100.0			23.17	0.88	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.030	23.460	1.064	4915.8	3516.1	11.946	5.068	3.07		Clay	100.0			22.17	0.87	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.190	30.760	1.183	4935.8	3526.1	16.047	4.180	2.92		Clay	96.5			29.07	0.87	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.350	31.460	1.303	4955.8	3536.2	16.392	4.496	2.93		Clay	97.5			29.74	0.87	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.520	27.070	1.177	4977.0	3546.8	13.861	4.788	3.01		Clay	100.0			25.59	0.87	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.680	24.790	1.198	4997.0	3556.8	12.535	5.376	3.07		Clay	100.0			23.43	0.87	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.850	23.970	1.130	5018.3	3567.5	12.031	5.264	3.08		Clay	100.0			22.66	0.87	n.a.	n.a.	0.87	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.010	24.690	1.208	5038.3	3577.5	12.395	5.447	3.08		Clay	100.0			23.34	0.87	n.a.	n.a.	0.87	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.170	25.340	1.272	5058.3	3587.5	12.717	5.575	3.08		Clay	100.0			23.95	0.87	n.a.	n.a.	0.87	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.340	26.680	1.404	5079.5	3598.1	13.418	5.816	3.07		Clay	100.0			25.22	0.87	n.a.	n.a.	0.87	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.500	26.660	1.324	5099.5	3608.1	13.364	5.490	3.06		Clay	100.0			25.20	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.670	26.670	1.346	5120.8	3618.8	13.325	5.583	3.06		Clay	100.0			25.21	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.830	24.900	1.328	5140.8	3628.8	12.307	5.949	3.11		Clay	100.0			23.53	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.990	23.640	1.322	5160.8	3638.8	11.575	6.276	3.14		Clay	100.0			22.34	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.160	25.900	1.270	5182.0	3649.5	12.774	5.450	3.07		Clay	100.0			24.48	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.320	23.490	1.167	5202.0	3659.5	11.416	5.586	3.11		Clay	100.0			22.20	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.490	22.620	0.998	5223.3	3670.1	10.903	4.986	3.10		Clay	100.0			21.38	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.650	22.900	0.971	5243.3	3680.1	11.020	4.786	3.08		Clay	100.0			21.64	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.810	22.700	0.996	5263.3	3690.1	10.877	4.964	3.10		Clay	100.0			21.46	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.980	24.950	0.981	5284.5	3700.8	12.056	4.397	3.03		Clay	100.0			23.58	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.140	25.690	1.107	5304.5	3710.8	12.417	4.804	3.04		Clay	100.0			24.28	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.310	24.100	1.071	5325.8	3721.4	11.521	4.994	3.08		Clay	100.0			22.78	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.470	22.900	0.986	5345.8	3731.5	10.841	4.877	3.09		Clay	100.0			21.64	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.640	20.760	0.886	5367.0	3742.1	9.661	4.902	3.13		Clay	100.0			19.62	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.800	19.380	0.786	5387.0	3752.1	8.894	4.708	3.15		Clay	100.0			18.32	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.960	19.220	0.760	5407.0	3762.1	8.780	4.598	3.15		Clay	100.0			18.17	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
44.130	19.290	0.838	5428.3	3772.8	8.787	5.056	3.18		Clay	100.0			18.23	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
44.290	18.100	0.780	5448.3	3782.8	8.129	5.075	3.20		Clay	100.0			17.11	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
44.460	17.270	0.753	5469.5	3793.4	7.663	5.181	3.23		Clay	100.0			16.32	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 1

PGA (A_{max}) 1.00

Total Settlement: 0.28 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	CRR$_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
44.620	16.830	0.738	5489.5	3803.5	7.407	5.238	3.24		Clay	100.0			15.91	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
44.780	17.390	0.734	5509.5	3813.5	7.676	5.015	3.22		Clay	100.0			16.44	0.86	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
44.950	16.960	0.714	5530.8	3824.1	7.424	5.027	3.23		Clay	100.0			16.03	0.86	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.110	16.360	0.676	5550.8	3834.1	7.086	4.974	3.25		Clay	100.0			15.46	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.280	15.790	0.612	5572.0	3844.8	6.765	4.702	3.25		Clay	100.0			14.92	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.440	15.110	0.557	5592.0	3854.8	6.389	4.519	3.26		Clay	100.0			14.28	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.600	14.880	0.510	5612.0	3864.8	6.248	4.227	3.25		Clay	100.0			14.06	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.770	14.650	0.468	5633.3	3875.4	6.107	3.954	3.24		Clay	100.0			13.85	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.930	14.510	0.442	5653.3	3885.5	6.014	3.779	3.24		Clay	100.0			13.71	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.100	14.760	0.414	5674.5	3896.1	6.120	3.469	3.21		Clay	100.0			13.95	0.85	n.a.	n.a.	0.84	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.260	14.970	0.457	5694.5	3906.1	6.207	3.767	3.22		Clay	100.0			14.15	0.85	n.a.	n.a.	0.84	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.420	15.820	0.536	5714.5	3916.1	6.620	4.131	3.22		Clay	100.0			14.95	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.590	16.900	0.570	5735.8	3926.8	7.147	4.063	3.19		Clay	100.0			15.97	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.750	17.290	0.567	5755.8	3936.8	7.322	3.935	3.18		Clay	100.0			16.34	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.920	16.850	0.575	5777.0	3947.4	7.074	4.116	3.20		Clay	100.0			15.93	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.080	16.960	0.566	5797.0	3957.4	7.106	4.022	3.19		Clay	100.0			16.03	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.240	16.400	0.520	5817.0	3967.5	6.801	3.851	3.20		Clay	100.0			15.50	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.410	16.100	0.544	5838.3	3978.1	6.627	4.130	3.22		Clay	100.0			15.22	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.570	16.810	0.554	5858.3	3988.1	6.961	3.988	3.20		Clay	100.0			15.89	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.740	17.070	0.540	5879.5	3998.8	7.067	3.822	3.18		Clay	100.0			16.13	0.85	n.a.	n.a.	0.84	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.900	17.090	0.538	5899.5	4008.8	7.055	3.803	3.18		Clay	100.0			16.15	0.84	n.a.	n.a.	0.84	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.060	17.360	0.566	5919.5	4018.8	7.166	3.929	3.18		Clay	100.0			16.41	0.84	n.a.	n.a.	0.84	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.230	16.570	0.530	5940.8	4029.4	6.750	3.899	3.20		Clay	100.0			15.66	0.84	n.a.	n.a.	0.84	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.390	15.880	0.493	5960.8	4039.5	6.387	3.818	3.22		Clay	100.0			15.01	0.84	n.a.	n.a.	0.83	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.560	15.550	0.452	5982.0	4050.1	6.202	3.595	3.21		Clay	100.0			14.70	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.720	15.960	0.475	6002.0	4060.1	6.384	3.664	3.21		Clay	100.0			15.09	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.880	16.990	0.484	6022.0	4070.1	6.869	3.459	3.17		Clay	100.0			16.06	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
49.050	16.830	0.487	6043.3	4080.8	6.768	3.528	3.18		Clay	100.0			15.91	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
49.210	16.630	0.477	6063.3	4090.8	6.648	3.505	3.18		Clay	100.0			15.72	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
49.380	17.560	0.508	6084.5	4101.4	7.079	3.498	3.16		Clay	100.0			16.60	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
49.540	18.260	0.524	6104.5	4111.4	7.398	3.444	3.14		Clay	100.0			17.26	0.84	n.a.	n.a.	0.83	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
49.700	18.650	0.556	6124.5	4121.5	7.564	3.564	3.14		Clay	100.0			17.63	0.84	n.a.	n.a.	0.83	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
49.870	19.060	0.569	6145.8	4132.1	7.738	3.560	3.13		Clay	100.0			18.02	0.84	n.a.	n.a.	0.83	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
50.030	19.350	0.543	6165.8	4142.1	7.854	3.336	3.11		Clay	100.0			18.29	0.84	n.a.	n.a.	0.83	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
50.200	19.960	0.496	6187.0	4152.8	8.123	2.938	3.07		Clay	100.0			18.87	0.84	n.a.	n.a.	0.83	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
50.360	20.100	0.565	6207.0	4162.8	8.166	3.323	3.09		Clay	100.0			19.00	0.84	n.a.	n.a.	0.83	0.871	n.a.	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 2

PGA (A_{max}) 1.00

Total Settlement: 0.24 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	$CRR_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
0.660	3.760	0.166	79.2	79.2	35.064	4.459	2.68		Unsaturated	77.7			3.55	1.70	6.04	59.57	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.820	3.940	0.323	98.4	98.4	79.081	8.289	2.65		Unsaturated	75.3			3.72	1.70	6.33	59.62	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.980	7.490	0.510	117.6	117.6	53.107	6.856	2.70		Unsaturated	78.7			7.08	1.70	12.03	67.49	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.150	6.410	0.479	138.0	138.0	40.515	7.546	2.81		Unsaturated	87.4			6.06	1.70	10.30	66.27	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.310	7.130	0.852	157.2	157.2	89.712	12.083	2.76		Unsaturated	83.6			6.74	1.70	11.46	67.35	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.480	8.550	1.002	177.6	177.6	95.284	11.842	2.74		Unsaturated	81.8			8.08	1.70	13.74	70.10	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.640	19.160	1.520	196.8	196.8	94.999	7.973	2.59		Unsaturated	70.5			18.11	1.70	30.79	90.47	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.800	23.700	1.955	216.0	216.0	110.160	8.288	2.57		Unsaturated	68.7			22.40	1.70	38.08	99.53	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.970	61.670	2.270	236.4	236.4	174.056	3.688	2.17		Unsaturated	36.5			58.29	1.70	99.09	161.87	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.130	62.170	1.755	255.6	255.6	168.725	2.829	2.08		Unsaturated	29.6			58.76	1.70	99.90	154.93	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.300	46.650	1.915	276.0	276.0	121.726	4.117	2.30		Unsaturated	46.9			44.09	1.70	74.96	139.26	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.460	40.020	2.426	295.2	295.2	100.899	6.085	2.48		Unsaturated	61.7			37.83	1.70	64.30	131.54	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.620	98.930	2.129	314.4	314.4	242.197	2.156	1.90		Unsaturated	14.6			93.51	1.70	158.96	185.60	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.790	110.440	1.487	334.8	334.8	262.028	1.348	1.71		Unsaturated	0.0			104.39	1.70	177.46	177.46	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.950	105.230	0.927	354.0	354.0	242.761	0.883	1.59		Unsaturated	0.0			99.46	1.70	169.08	169.08	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.120	89.440	0.482	374.4	374.4	200.552	0.540	1.51		Unsaturated	0.0			84.54	1.70	143.71	143.71	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.280	54.550	0.359	393.6	393.6	119.116	0.661	1.74		Unsaturated	2.1			51.56	1.70	87.65	87.65	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.440	36.010	0.520	412.8	412.8	76.618	1.452	2.10		Unsaturated	31.3			34.04	1.70	57.86	106.27	1.00	0.649	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.610	24.510	0.654	433.2	433.2	50.748	2.693	2.42		Unsaturated	56.3			23.17	1.70	39.38	98.05	1.00	0.649	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.770	16.330	0.759	452.4	452.4	44.816	4.715	2.63		Unsaturated	73.0			15.43	1.70	26.24	85.04	1.00	0.649	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.940	13.120	0.762	472.8	472.8	54.499	5.918	2.64		Unsaturated	74.3			12.40	1.70	21.08	78.56	1.00	0.649	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.100	12.500	0.889	492.0	492.0	49.813	7.252	2.73		Unsaturated	81.7			11.81	1.70	20.09	78.34	1.00	0.648	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.270	15.460	1.040	512.4	512.4	59.343	6.838	2.66		Unsaturated	76.2			14.61	1.70	24.84	83.74	1.00	0.648	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.430	19.530	1.140	531.6	531.6	47.887	5.917	2.68		Unsaturated	77.2			18.46	1.70	31.38	92.38	1.00	0.648	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.590	20.410	1.213	550.8	550.8	48.823	6.022	2.68		Unsaturated	77.2			19.29	1.70	32.79	94.22	1.00	0.648	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.760	19.740	1.210	571.2	571.2	45.988	6.221	2.71		Unsaturated	79.5			18.66	1.70	31.72	93.16	1.00	0.647	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.920	18.850	1.226	590.4	590.4	62.855	6.606	2.64		Unsaturated	74.0			17.82	1.70	30.29	90.44	1.00	0.647	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.090	19.170	1.162	610.8	610.8	61.770	6.157	2.62		Unsaturated	72.5			18.12	1.70	30.80	90.85	1.00	0.647	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.250	18.900	1.052	630.0	630.0	59.000	5.658	2.60		Unsaturated	71.3			17.86	1.70	30.37	90.07	0.99	0.647	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.410	17.730	0.997	649.2	649.2	53.621	5.726	2.63		Unsaturated	73.8			16.76	1.70	28.49	88.08	0.99	0.646	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.580	17.180	1.004	669.6	669.6	50.314	5.960	2.67		Unsaturated	76.3			16.24	1.70	27.60	87.34	0.99	0.646	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.740	17.500	1.060	688.8	688.8	49.813	6.176	2.68		Unsaturated	77.4			16.54	1.70	28.12	88.18	0.99	0.646	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.910	18.420	1.136	709.2	709.2	50.946	6.288	2.68		Unsaturated	77.4			17.41	1.70	29.60	90.09	0.99	0.646	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.070	18.940	1.239	728.4	728.4	51.004	6.670	2.70		Unsaturated	78.9			17.90	1.70	30.43	91.41	0.99	0.645	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.230	18.910	1.259	747.6	747.6	49.589	6.790	2.71		Unsaturated	80.0			17.87	1.70	30.38	91.50	0.99	0.645	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.400	19.280	1.267	768.0	768.0	49.208	6.704	2.71		Unsaturated	79.9			18.22	1.69	30.76	91.97	0.99	0.645	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.560	19.450	1.271	787.2	787.2	48.416	6.670	2.71		Unsaturated	80.1			18.38	1.67	30.64	91.85	0.99	0.645	1.099	n.a.	n.a.	n.a.	0.00	0.00
6.730	20.790	1.328	807.6	807.6	50.486	6.512	2.69		Unsaturated	78.5			19.65	1.64	32.20	93.64	0.99	0.644	1.097	n.a.	n.a.	n.a.	0.00	0.00
6.890	21.900	1.358	826.8	826.8	51.975	6.319	2.68		Unsaturated	77.1			20.70	1.61	33.41	94.99	0.99	0.644	1.096	n.a.	n.a.	n.a.	0.00	0.00
7.050	22.930	1.403	846.0	846.0	53.208	6.231	2.66		Unsaturated	76.2			21.67	1.59	34.48	96.24	0.99	0.644	1.095	n.a.	n.a.	n.a.	0.00	0.00
7.220	24.190	1.454	866.4	866.4	54.840	6.119	2.65		Unsaturated	75.0			22.86	1.57	35.83	97.79	0.99	0.644	1.093	n.a.	n.a.	n.a.	0.00	0.00
7.380	26.770	1.538	885.6	885.6	59.456	5.843	2.61		Unsaturated	72.0			25.30	1.54	38.95	101.29	0.99	0.643	1.094	n.a.	n.a.	n.a.	0.00	0.00
7.550	28.080	1.665	906.0	906.0	60.987	6.027	2.62		Unsaturated	72.2			26.54	1.52	40.27	103.04	0.99	0.643	1.092	n.a.	n.a.	n.a.	0.00	0.00
7.710	28.960	1.914	925.2	925.2	61.603	6.717	2.65		Unsaturated	74.9			27.37	1.50	41.00	104.47	0.99	0.643	1.091	n.a.	n.a.	n.a.	0.00	0.00
7.870	29.090	2.072	944.4	944.4	60.605	7.240	2.68		Unsaturated	77.3			27.50	1.48	40.77	104.56	0.99	0.642	1.089	n.a.	n.a.	n.a.	0.00	0.00
8.040	29.770	2.264	964.8	964.8	60.712	7.730	2.70		Unsaturated	79.0			28.14	1.47	41.23	105.43	0.99	0.642	1.087	n.a.	n.a.	n.a.	0.00	0.00
8.200	31.540	2.320	984.0	984.0	63.106	7.471	2.68		Unsaturated	77.2			29.81	1.45	43.11	107.60	0.99	0.642	1.086	n.a.	n.a.	n.a.	0.00	0.00
8.370	33.490	2.337	1004.4	1004.4	65.687	7.083	2.65		Unsaturated	74.9			31.65	1.43	45.16	109.87	0.99	0.642	1.086	n.a.	n.a.	n.a.	0.00	0.00
8.530	31.400	2.168	1023.6	1023.6	60.352	7.018	2.67		Unsaturated	76.5			29.68	1.42	42.19	106.29	0.99	0.641	1.081	n.a.	n.a.	n.a.	0.00	0.00
8.690	31.240	2.244	1042.8	1042.8	58.916	7.303	2.69		Unsaturated	78.1			29.53	1.41	41.63	105.82	0.99	0.641	1.079	n.a.	n.a.	n.a.	0.00	0.00
8.860	34.370	2.431	1063.2	1063.2	63.654	7.185	2.66		Unsaturated	76.0			32.49	1.39	45.10	109.98	0.99	0.641	1.079	n.a.	n.a.	n.a.	0.00	0.00
9.020	36.760	2.619	1082.4	1082.4	66.923	7.230	2.65		Unsaturated	75.1			34.74	1.37	47.63	113.09	0.99	0.640	1.079	n.a.	n.a.	n.a.	0.00	0.00
9.190	36.420	2.646	1102.8	1102.8	65.050	7.376	2.67		Unsaturated	76.2			34.42	1.36	46.83	112.25	0.98	0.640	1.076	n.a.	n.a.	n.a.	0.00	0.00
9.350	35.500	2.521	1122.0	1122.0	62.280	7.214	2.67		Unsaturated	76.6			33.55	1.35	45.38	110.43	0.98	0.640	1.073	n.a.	n.a.	n.a.	0.00	0.00
9.510	30.920	2.346	1141.2	1141.2	53.189	7.730	2.74		Unsaturated	81.9			29.22	1.35	39.55	103.69	0.98	0.640	1.068	n.a.	n.a.	n.a.	0.00	0.00
9.680	28.510	2.088	1161.6	1161.6	48.087	7.477	2.75		Unsaturated	83.3			26.95	1.35	36.34	99.70	0.98	0.639	1.064	n.a.	n.a.	n.a.	0.00	0.00
9.840	27.410	2.007	1180.8	1180.8	45.426	7.482	2.77		Unsaturated	84.6			25.91	1.34	34.74	97.79	0.98	0.639	1.061	n.a.	n.a.	n.a.	0.00	0.00
10.010	27.610	2.041	1201.2	1201.2	44.971	7.557	2.78		Unsaturated	85.1			26.10	1.33	34.70	97.79	0.98	0.639	1.059	n.a.	n.a.	n.a.	0.00	0.00
10.170	29.210	2.036	1220.4	1220.4	46.870	7.118	2.74		Unsaturated	82.5			27.61	1.32	36.34	99.59	0.98	0.638	1.058	n.a.	n.a.	n.a.	0.00	0.00
10.330	28.520	1.904	1239.6	1239.6	45.015	6.823	2.74		Unsaturated	82.4			26.96	1.31	35.26	98.17	0.98	0.638	1.056	n.a.	n.a.	n.a.	0.00	0.00
10.500	33.330	1.657	1260.0	1260.0	51.905	5.069	2.60		Unsaturated	71.4			31.50	1.29	40.63	103.35	0.98	0.638	1.057	n.a.	n.a.	n.a.	0.00	0.00
10.660	40.970	1.537	1279.2	1279.2	49.027	3.811	2.53		Unsaturated	65.6			38.72	1.27	49.07	113.00	0.98	0.638	1.059	n.a.	n.a.	n.a.	0.00	0.00
10.830	51.470	1.511	1299.6	1299.6	61.292	2.974	2.39		Unsaturated	54.0			48.65	1.24	60.54	124.20	0.98	0.637	1.063	n.a.	n.a.	n.a.	0.00	0.00
10.990	58.430	1.414	1318.8	1318.8	69.166	2.448	2.29		Unsaturated	46.2			55.23	1.23	67.93	130.07	0.98	0.637	1.064	n.a.	n.a.	n.a.	0.00	0.00
11.150	64.260	1.327	1338.0	1338.0	75.586	2.086	2.21		Unsaturated	40.1			60.74	1.22	74.00	133.88	0.98	0.637	1.064	n.a.	n.a.	n.a.	0.00	0.00
11.320	67.010	1.233	1358.4	1358.4	78.248	1.858	2.17		Unsaturated	36.5			63.34	1.21	76.64	134.25	0.98	0.636	1.062	n.a.	n.a.	n.a.	0.00	0.00
11.480	64.320	1.129	1377.6	1377.6	74.539	1.774	2.17		Unsaturated	36.6			60.79	1.21	73.35	130.31	0.98	0.636	1.058	n.a.	n.a.	n.a.	0.00	0.00
11.650	51.850	1.169	1398.0	1398.0	59.480	2.285	2.32		Unsaturated	48.4			49.01	1.21	59.21	120.16	0.98	0.636	1.052	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 2

PGA (A_{max}) 1.00

Total Settlement: 0.24 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	CRR$_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
11.810	33.090	1.203	1417.2	1417.2	40.520	3.715	2.58		Unsaturated	69.6			31.28	1.22	38.19	99.87	0.98	0.635	1.043	n.a.	n.a.	n.a.	0.00	0.00
11.980	26.040	1.219	1437.6	1437.6	35.227	4.815	2.71		Unsaturated	79.4			24.61	1.22	30.08	91.02	0.98	0.635	1.038	n.a.	n.a.	n.a.	0.00	0.00
12.140	25.240	1.124	1456.8	1456.8	33.651	4.585	2.70		Clay	79.4			23.86	1.10	n.a.	n.a.	0.98	0.639	n.a.	n.a.	n.a.	n.a.	0.00	0.00
12.300	17.700	0.987	1476.0	1476.0	22.984	5.820	2.90		Clay	94.7			16.73	1.10	n.a.	n.a.	0.98	0.643	n.a.	n.a.	n.a.	n.a.	0.00	0.00
12.470	16.100	0.885	1496.4	1496.4	20.518	5.766	2.93		Clay	97.3			15.22	1.10	n.a.	n.a.	0.98	0.647	n.a.	n.a.	n.a.	n.a.	0.00	0.00
12.630	15.930	0.848	1515.6	1515.6	20.021	5.590	2.93		Clay	97.2			15.06	1.09	n.a.	n.a.	0.98	0.651	n.a.	n.a.	n.a.	n.a.	0.00	0.00
12.800	14.440	0.822	1536.0	1536.0	17.802	6.015	2.99		Clay	100.0			13.65	1.09	n.a.	n.a.	0.97	0.655	n.a.	n.a.	n.a.	n.a.	0.00	0.00
12.960	13.780	0.792	1555.2	1555.2	16.721	6.090	3.01		Clay	100.0			13.02	1.08	n.a.	n.a.	0.97	0.658	n.a.	n.a.	n.a.	n.a.	0.00	0.00
13.120	13.640	0.766	1574.4	1574.4	16.327	5.957	3.01		Clay	100.0			12.89	1.08	n.a.	n.a.	0.97	0.662	n.a.	n.a.	n.a.	n.a.	0.00	0.00
13.290	13.400	0.736	1594.8	1594.8	15.805	5.836	3.02		Clay	100.0			12.67	1.08	n.a.	n.a.	0.97	0.666	n.a.	n.a.	n.a.	n.a.	0.00	0.00
13.450	12.810	0.680	1614.0	1614.0	14.874	5.662	3.03		Clay	100.0			12.11	1.07	n.a.	n.a.	0.97	0.670	n.a.	n.a.	n.a.	n.a.	0.00	0.00
13.620	12.420	0.630	1634.4	1634.4	14.198	5.425	3.03		Clay	100.0			11.74	1.07	n.a.	n.a.	0.97	0.673	n.a.	n.a.	n.a.	n.a.	0.00	0.00
13.780	11.400	0.600	1653.6	1653.6	12.788	5.670	3.08		Clay	100.0			10.78	1.07	n.a.	n.a.	0.97	0.677	n.a.	n.a.	n.a.	n.a.	0.00	0.00
13.940	10.390	0.579	1672.8	1672.8	11.422	6.063	3.14		Clay	100.0			9.82	1.06	n.a.	n.a.	0.97	0.680	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.110	10.070	0.569	1693.2	1693.2	10.895	6.171	3.16		Clay	100.0			9.52	1.06	n.a.	n.a.	0.97	0.684	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.270	9.980	0.565	1712.4	1712.4	10.656	6.191	3.16		Clay	100.0			9.43	1.06	n.a.	n.a.	0.97	0.687	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.440	9.940	0.564	1732.8	1732.8	10.473	6.213	3.17		Clay	100.0			9.40	1.05	n.a.	n.a.	0.97	0.690	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.600	11.260	0.544	1752.0	1752.0	11.854	5.234	3.08		Clay	100.0			10.64	1.05	n.a.	n.a.	0.97	0.694	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.760	12.580	0.716	1771.2	1771.2	13.205	6.121	3.09		Clay	100.0			11.89	1.05	n.a.	n.a.	0.97	0.697	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.930	15.780	0.807	1791.6	1791.6	16.616	5.422	2.98		Clay	100.0			14.91	1.04	n.a.	n.a.	0.97	0.700	n.a.	n.a.	n.a.	n.a.	0.00	0.00
15.090	35.040	0.860	1810.8	1810.8	34.876	2.519	2.52		Sand	64.5	42.25	1.8	76.05	1.06	80.90	153.67	0.97	0.703	1.026	0.315	0.553	0.79	0.01	0.03
15.260	44.700	0.695	1831.2	1831.2	44.486	1.588	2.31		Sand	47.8		1.8	76.05	1.06	80.67	146.96	0.97	0.706	1.023	0.270	0.451	0.64	0.02	0.04
15.420	41.600	0.697	1850.4	1850.4	41.112	1.713	2.36		Sand	51.6	42.25	1.8	76.05	1.06	80.31	148.32	0.97	0.709	1.021	0.278	0.468	0.66	0.02	0.04
15.580	35.710	0.876	1869.6	1869.6	34.968	2.518	2.52		Sand	64.4	42.25	1.8	76.05	1.05	79.91	152.36	0.97	0.712	1.020	0.305	0.528	0.74	0.02	0.03
15.750	25.240	0.715	1890.0	1890.0	25.709	2.944	2.66		Clay	76.1			23.86	1.03	n.a.	n.a.	0.97	0.715	n.a.	n.a.	n.a.	n.a.	0.00	0.00
15.910	16.070	0.615	1909.2	1909.2	15.834	4.067	2.92		Clay	96.2			15.19	1.03	n.a.	n.a.	0.96	0.718	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.080	13.420	0.653	1929.6	1929.6	12.910	5.244	3.05		Clay	100.0			12.68	1.02	n.a.	n.a.	0.96	0.721	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.240	18.740	0.444	1948.8	1948.8	18.232	2.499	2.74		Clay	82.1			17.71	1.02	n.a.	n.a.	0.96	0.724	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.400	13.140	0.403	1968.0	1968.0	12.354	3.318	2.95		Clay	98.8			12.42	1.02	n.a.	n.a.	0.96	0.726	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.570	10.240	0.366	1988.4	1988.4	9.300	3.961	3.09		Clay	100.0			9.68	1.02	n.a.	n.a.	0.96	0.729	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.730	35.320	0.447	2007.6	2007.6	33.299	1.303	2.36		Sand	51.9	36.38	1.8	65.48	1.02	67.00	131.57	0.96	0.732	1.007	0.202	0.302	0.41	0.02	0.05
16.900	38.400	0.653	2028.0	2028.0	36.095	1.746	2.41		Sand	55.6		1.8	65.33	1.02	66.54	132.44	0.96	0.734	1.006	0.205	0.307	0.42	0.02	0.05
17.060	25.990	0.618	2047.2	2047.2	24.391	2.477	2.63		Clay	73.8			24.57	1.01	n.a.	n.a.	0.96	0.737	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.220	16.360	0.637	2066.4	2066.4	14.834	4.155	2.94		Clay	98.5			15.46	1.01	n.a.	n.a.	0.96	0.739	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.390	10.970	0.483	2086.8	2086.8	9.514	4.862	3.14		Clay	100.0			10.37	1.00	n.a.	n.a.	0.96	0.742	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.550	10.380	0.352	2106.0	2106.0	8.858	3.777	3.10		Clay	100.0			9.81	1.00	n.a.	n.a.	0.96	0.744	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.720	8.130	0.259	2127.0	2119.5	6.668	3.664	3.19		Clay	100.0			7.68	1.00	n.a.	n.a.	0.96	0.747	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.880	7.020	0.194	2147.0	2129.5	5.585	3.266	3.23		Clay	100.0			6.64	1.00	n.a.	n.a.	0.96	0.749	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.040	6.680	0.214	2167.0	2139.5	5.231	3.822	3.29		Clay	100.0			6.31	1.00	n.a.	n.a.	0.96	0.752	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.210	7.240	0.375	2188.3	2150.2	5.717	6.102	3.37		Clay	100.0			6.84	1.00	n.a.	n.a.	0.96	0.754	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.370	9.350	0.689	2208.3	2160.2	7.634	8.352	3.36		Clay	100.0			8.84	0.99	n.a.	n.a.	0.96	0.756	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.540	15.370	1.067	2229.5	2170.8	13.133	7.486	3.15		Clay	100.0			14.53	0.99	n.a.	n.a.	0.96	0.759	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.700	24.880	0.893	2249.5	2180.9	21.785	3.757	2.79		Clay	85.9			23.52	0.99	n.a.	n.a.	0.96	0.761	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.860	25.540	0.900	2269.5	2190.9	22.279	3.689	2.77		Clay	84.9			24.14	0.99	n.a.	n.a.	0.95	0.763	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.030	28.150	0.618	2290.8	2201.5	24.533	2.287	2.61		Clay	71.9			26.61	0.99	n.a.	n.a.	0.95	0.765	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.190	17.750	0.657	2310.8	2211.5	15.007	3.957	2.93		Clay	97.1			16.78	0.99	n.a.	n.a.	0.95	0.767	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.360	12.070	0.569	2332.0	2222.2	9.814	5.218	3.15		Clay	100.0			11.41	0.99	n.a.	n.a.	0.95	0.769	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.520	14.540	0.768	2352.0	2232.2	11.974	5.745	3.10		Clay	100.0			13.74	0.99	n.a.	n.a.	0.95	0.771	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.690	13.370	0.483	2373.3	2242.8	10.864	3.963	3.04		Clay	100.0			12.64	0.98	n.a.	n.a.	0.95	0.773	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.850	9.800	0.341	2393.3	2252.9	7.638	3.960	3.16		Clay	100.0			9.26	0.98	n.a.	n.a.	0.95	0.775	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.010	8.400	0.316	2413.3	2262.9	6.358	4.390	3.25		Clay	100.0			7.94	0.98	n.a.	n.a.	0.95	0.777	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.180	8.750	0.312	2434.5	2273.5	6.627	4.143	3.22		Clay	100.0			8.27	0.98	n.a.	n.a.	0.95	0.779	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.340	9.430	0.384	2454.5	2283.5	7.184	4.686	3.23		Clay	100.0			8.91	0.98	n.a.	n.a.	0.95	0.781	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.510	10.380	0.431	2475.8	2294.2	7.970	4.716	3.19		Clay	100.0			9.81	0.98	n.a.	n.a.	0.95	0.783	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.670	12.100	0.550	2495.8	2304.2	9.420	5.065	3.15		Clay	100.0			11.44	0.98	n.a.	n.a.	0.95	0.785	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.830	12.100	0.388	2515.8	2314.2	9.370	3.581	3.06		Clay	100.0			11.44	0.98	n.a.	n.a.	0.95	0.787	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.000	9.110	0.292	2537.0	2324.8	6.746	3.721	3.19		Clay	100.0			8.61	0.98	n.a.	n.a.	0.95	0.788	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.160	7.590	0.279	2557.0	2334.9	5.406	4.417	3.31		Clay	100.0			7.17	0.97	n.a.	n.a.	0.95	0.790	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.330	7.510	0.313	2578.3	2345.5	5.305	5.028	3.35		Clay	100.0			7.10	0.97	n.a.	n.a.	0.95	0.792	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.490	7.920	0.252	2598.3	2355.5	5.622	3.806	3.26		Clay	100.0			7.49	0.97	n.a.	n.a.	0.95	0.794	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.650	9.470	0.282	2618.3	2365.5	6.900	3.453	3.16		Clay	100.0			8.95	0.97	n.a.	n.a.	0.95	0.795	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.820	7.820	0.421	2639.5	2376.2	5.471	6.469	3.40		Clay	100.0			7.39	0.97	n.a.	n.a.	0.94	0.797	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.980	10.560	0.428	2659.5	2386.2	7.736	4.634	3.20		Clay	100.0			9.98	0.97	n.a.	n.a.	0.94	0.799	n.a.	n.a.	n.a.	n.a.	0.00	0.00
22.150	12.260	0.451	2680.8	2396.8	9.112	4.127	3.11		Clay	100.0			11.59	0.97	n.a.	n.a.	0.94	0.800	n.a.	n.a.	n.a.	n.a.	0.00	0.00
22.310	9.510	0.360	2700.8	2406.8	6.780	4.413	3.23		Clay	100.0			8.99	0.97	n.a.	n.a.	0.94	0.802	n.a.	n.a.	n.a.	n.a.	0.00	0.00
22.470	8.880	0.292	2720.8	2416.9	6.223	3.882	3.23		Clay	100.0			8.39	0.97	n.a.	n.a.	0.94	0.803	n.a.	n.a.	n.a.	n.a.	0.00	0.00
22.640	11.010	0.288	2742.0	2427.5	7.941	2.990	3.08		Clay	100.0			10.41	0.96	n.a.	n.a.	0.94	0.805	n.a.	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 2

PGA (A_{max}) 1.00

Total Settlement: 0.24 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	$CRR_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
22.800	8.570	0.305	2762.0	2437.5	5.899	4.243	3.27		Clay	100.0			8.10	0.96	n.a.	n.a.	0.94	0.806	n.a.	n.a.	n.a.	n.a.	0.00	0.00
22.970	7.640	0.306	2783.3	2448.2	5.105	4.900	3.36		Clay	100.0			7.22	0.96	n.a.	n.a.	0.94	0.808	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.130	8.450	0.367	2803.3	2458.2	5.735	5.200	3.33		Clay	100.0			7.99	0.96	n.a.	n.a.	0.94	0.809	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.290	9.960	0.478	2823.3	2468.2	6.927	5.592	3.28		Clay	100.0			9.41	0.96	n.a.	n.a.	0.94	0.811	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.460	12.180	0.405	2844.5	2478.8	8.680	3.763	3.10		Clay	100.0			11.51	0.96	n.a.	n.a.	0.94	0.812	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.620	9.170	0.297	2864.5	2488.9	6.218	3.840	3.23		Clay	100.0			8.67	0.96	n.a.	n.a.	0.94	0.814	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.790	7.570	0.268	2885.8	2499.5	4.903	4.372	3.34		Clay	100.0			7.16	0.96	n.a.	n.a.	0.94	0.815	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.950	7.310	0.256	2905.8	2509.5	4.668	4.371	3.36		Clay	100.0			6.91	0.96	n.a.	n.a.	0.94	0.816	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.110	7.160	0.263	2925.8	2519.5	4.522	4.609	3.39		Clay	100.0			6.77	0.95	n.a.	n.a.	0.94	0.818	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.280	6.950	0.268	2947.0	2530.2	4.329	4.890	3.42		Clay	100.0			6.57	0.95	n.a.	n.a.	0.94	0.819	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.440	6.990	0.259	2967.0	2540.2	4.336	4.704	3.41		Clay	100.0			6.61	0.95	n.a.	n.a.	0.93	0.820	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.610	7.070	0.219	2988.3	2550.8	4.372	3.933	3.36		Clay	100.0			6.68	0.95	n.a.	n.a.	0.93	0.821	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.770	7.310	0.255	3008.3	2560.8	4.534	4.383	3.37		Clay	100.0			6.91	0.95	n.a.	n.a.	0.93	0.823	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.930	7.710	0.278	3028.3	2570.9	4.820	4.482	3.36		Clay	100.0			7.29	0.95	n.a.	n.a.	0.93	0.824	n.a.	n.a.	n.a.	n.a.	0.00	0.00
25.100	7.650	0.267	3049.5	2581.5	4.745	4.366	3.36		Clay	100.0			7.23	0.95	n.a.	n.a.	0.93	0.825	n.a.	n.a.	n.a.	n.a.	0.00	0.00
25.260	7.440	0.254	3069.5	2591.5	4.557	4.294	3.37		Clay	100.0			7.03	0.95	n.a.	n.a.	0.93	0.826	n.a.	n.a.	n.a.	n.a.	0.00	0.00
25.430	7.300	0.237	3090.8	2602.2	4.423	4.120	3.37		Clay	100.0			6.90	0.95	n.a.	n.a.	0.93	0.827	n.a.	n.a.	n.a.	n.a.	0.00	0.00
25.590	7.460	0.232	3110.8	2612.2	4.521	3.934	3.35		Clay	100.0			7.05	0.95	n.a.	n.a.	0.93	0.829	n.a.	n.a.	n.a.	n.a.	0.00	0.00
25.750	7.560	0.205	3130.8	2622.2	4.572	3.426	3.31		Clay	100.0			7.15	0.94	n.a.	n.a.	0.93	0.830	n.a.	n.a.	n.a.	n.a.	0.00	0.00
25.920	7.600	0.177	3152.0	2632.8	4.576	2.937	3.28		Clay	100.0			7.18	0.94	n.a.	n.a.	0.93	0.831	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.080	7.430	0.157	3172.0	2642.8	4.423	2.687	3.27		Clay	100.0			7.02	0.94	n.a.	n.a.	0.93	0.832	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.250	8.050	0.212	3193.3	2653.5	4.864	3.280	3.28		Clay	100.0			7.61	0.94	n.a.	n.a.	0.93	0.833	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.410	9.530	0.478	3213.3	2663.5	5.950	6.032	3.36		Clay	100.0			9.01	0.94	n.a.	n.a.	0.93	0.834	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.570	11.760	0.642	3233.3	2673.5	7.588	6.333	3.29		Clay	100.0			11.12	0.94	n.a.	n.a.	0.93	0.835	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.740	24.060	0.581	3254.5	2684.2	16.715	2.591	2.78		Clay	85.2			22.74	0.94	n.a.	n.a.	0.93	0.836	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.900	22.020	0.447	3274.5	2694.2	15.131	2.193	2.77		Clay	84.7			20.81	0.94	n.a.	n.a.	0.93	0.837	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.070	14.310	0.289	3295.8	2704.8	9.363	2.283	2.96		Clay	99.4			13.53	0.94	n.a.	n.a.	0.92	0.838	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.230	11.450	0.363	3315.8	2714.8	7.214	3.710	3.17		Clay	100.0			10.82	0.94	n.a.	n.a.	0.92	0.839	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.400	12.130	0.462	3337.0	2725.5	7.677	4.413	3.19		Clay	100.0			11.47	0.94	n.a.	n.a.	0.92	0.840	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.560	14.140	0.598	3357.0	2735.5	9.111	4.801	3.15		Clay	100.0			13.36	0.93	n.a.	n.a.	0.92	0.841	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.720	15.370	0.656	3377.0	2745.5	9.966	4.793	3.12		Clay	100.0			14.53	0.93	n.a.	n.a.	0.92	0.842	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.890	16.600	0.708	3398.3	2756.2	10.813	4.754	3.09		Clay	100.0			15.69	0.93	n.a.	n.a.	0.92	0.843	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.050	17.540	0.785	3418.3	2766.2	11.446	4.960	3.08		Clay	100.0			16.58	0.93	n.a.	n.a.	0.92	0.844	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.220	18.200	0.819	3439.5	2776.8	11.870	4.971	3.07		Clay	100.0			17.20	0.93	n.a.	n.a.	0.92	0.845	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.380	18.700	0.903	3459.5	2786.8	12.179	5.318	3.08		Clay	100.0			17.67	0.93	n.a.	n.a.	0.92	0.845	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.540	19.090	0.887	3479.5	2796.8	12.407	5.109	3.06		Clay	100.0			18.04	0.93	n.a.	n.a.	0.92	0.846	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.710	18.950	0.869	3500.8	2807.5	12.253	5.054	3.06		Clay	100.0			17.91	0.93	n.a.	n.a.	0.92	0.847	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.870	18.260	0.817	3520.8	2817.5	11.712	4.949	3.07		Clay	100.0			17.26	0.93	n.a.	n.a.	0.92	0.848	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.040	17.400	0.743	3542.0	2828.1	11.052	4.756	3.08		Clay	100.0			16.45	0.93	n.a.	n.a.	0.92	0.849	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.200	16.310	0.665	3562.0	2838.2	10.238	4.576	3.10		Clay	100.0			15.42	0.93	n.a.	n.a.	0.92	0.850	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.360	15.090	0.620	3582.0	2848.2	9.339	4.660	3.13		Clay	100.0			14.26	0.92	n.a.	n.a.	0.92	0.850	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.530	13.580	0.566	3603.3	2858.8	8.240	4.802	3.18		Clay	100.0			12.84	0.92	n.a.	n.a.	0.91	0.851	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.690	11.710	0.480	3623.3	2868.8	6.901	4.848	3.25		Clay	100.0			11.07	0.92	n.a.	n.a.	0.91	0.852	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.860	9.930	0.412	3644.5	2879.5	5.631	5.080	3.33		Clay	100.0			9.39	0.92	n.a.	n.a.	0.91	0.853	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.020	9.020	0.389	3664.5	2889.5	4.975	5.406	3.39		Clay	100.0			8.53	0.92	n.a.	n.a.	0.91	0.853	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.180	9.620	0.406	3684.5	2899.5	5.365	5.220	3.36		Clay	100.0			9.09	0.92	n.a.	n.a.	0.91	0.854	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.350	10.640	0.358	3705.8	2910.2	6.039	4.078	3.25		Clay	100.0			10.06	0.92	n.a.	n.a.	0.91	0.855	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.510	10.640	0.320	3725.8	2920.2	6.011	3.646	3.23		Clay	100.0			10.06	0.92	n.a.	n.a.	0.91	0.855	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.680	9.660	0.328	3747.0	2930.8	5.314	4.216	3.31		Clay	100.0			9.13	0.92	n.a.	n.a.	0.91	0.856	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.840	9.820	0.397	3767.0	2940.8	5.397	5.006	3.34		Clay	100.0			9.28	0.92	n.a.	n.a.	0.91	0.857	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.000	10.280	0.456	3787.0	2950.8	5.684	5.436	3.35		Clay	100.0			9.72	0.92	n.a.	n.a.	0.91	0.857	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.170	10.550	0.471	3808.3	2961.5	5.839	5.447	3.34		Clay	100.0			9.97	0.92	n.a.	n.a.	0.91	0.858	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.330	10.820	0.430	3828.3	2971.5	5.994	4.824	3.30		Clay	100.0			10.23	0.91	n.a.	n.a.	0.91	0.858	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.500	10.770	0.401	3849.5	2982.1	5.932	4.535	3.29		Clay	100.0			10.18	0.91	n.a.	n.a.	0.91	0.859	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.660	10.550	0.351	3869.5	2992.2	5.759	4.073	3.27		Clay	100.0			9.97	0.91	n.a.	n.a.	0.91	0.860	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.820	11.000	0.352	3889.5	3002.2	6.032	3.882	3.24		Clay	100.0			10.40	0.91	n.a.	n.a.	0.91	0.860	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.990	11.810	0.366	3910.8	3012.8	6.542	3.717	3.20		Clay	100.0			11.16	0.91	n.a.	n.a.	0.90	0.861	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.150	13.090	0.390	3930.8	3022.8	7.360	3.502	3.14		Clay	100.0			12.37	0.91	n.a.	n.a.	0.90	0.861	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.320	14.500	0.435	3952.0	3033.5	8.257	3.477	3.10		Clay	100.0			13.71	0.91	n.a.	n.a.	0.90	0.862	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.480	15.580	0.484	3972.0	3043.5	8.933	3.557	3.08		Clay	100.0			14.73	0.91	n.a.	n.a.	0.90	0.862	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.640	16.250	0.505	3992.0	3053.5	9.336	3.541	3.06		Clay	100.0			15.36	0.91	n.a.	n.a.	0.90	0.863	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.810	17.040	0.529	4013.3	3064.1	9.812	3.517	3.04		Clay	100.0			16.11	0.91	n.a.	n.a.	0.90	0.863	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.970	17.580	0.540	4033.3	3074.2	10.125	3.470	3.03		Clay	100.0			16.62	0.91	n.a.	n.a.	0.90	0.864	n.a.	n.a.	n.a.	n.a.	0.00	0.00
33.140	17.660	0.526	4054.5	3084.8	10.135	3.362	3.02		Clay	100.0			16.69	0.91	n.a.	n.a.	0.90	0.864	n.a.	n.a.	n.a.	n.a.	0.00	0.00
33.300	17.090	0.523	4074.5	3094.8	9.728	3.475	3.04		Clay	100.0			16.15	0.90	n.a.	n.a.	0.90	0.865	n.a.	n.a.	n.a.	n.a.	0.00	0.00
33.460	15.920	0.488	4094.5	3104.8	8.936	3.516	3.08		Clay	100.0			15.05	0.90	n.a.	n.a.	0.90	0.865	n.a.	n.a.	n.a.	n.a.	0.00	0.00
33.630	14.650	0.419	4115.8	3115.5	8.084	3.327	3.10		Clay	100.0			13.85	0.90	n.a.	n.a.	0.90	0.866	n.a.	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 2

PGA (A_{max}) 1.00

Total Settlement: 0.24 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	$CRR_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
33.790	13.510	0.363	4135.8	3125.5	7.322	3.176	3.12		Clay	100.0			12.77	0.90	n.a.	n.a.	0.90	0.866	n.a.	n.a.	n.a.	n.a.	0.00	0.00
33.960	13.620	0.347	4157.0	3136.1	7.360	3.009	3.11		Clay	100.0			12.87	0.90	n.a.	n.a.	0.90	0.867	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.120	14.040	0.407	4177.0	3146.2	7.598	3.405	3.13		Clay	100.0			13.27	0.90	n.a.	n.a.	0.90	0.867	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.280	15.170	0.519	4197.0	3156.2	8.283	3.968	3.13		Clay	100.0			14.34	0.90	n.a.	n.a.	0.90	0.867	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.450	16.140	0.630	4218.3	3166.8	8.861	4.489	3.14		Clay	100.0			15.26	0.90	n.a.	n.a.	0.89	0.868	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.610	17.260	0.616	4238.3	3176.8	9.532	4.071	3.09		Clay	100.0			16.31	0.90	n.a.	n.a.	0.89	0.868	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.780	17.680	0.762	4259.5	3187.5	9.757	4.898	3.13		Clay	100.0			16.71	0.90	n.a.	n.a.	0.89	0.869	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.940	17.490	0.741	4279.5	3197.5	9.601	4.829	3.13		Clay	100.0			16.53	0.90	n.a.	n.a.	0.89	0.869	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.100	15.680	0.768	4299.5	3207.5	8.437	5.679	3.22		Clay	100.0			14.82	0.90	n.a.	n.a.	0.89	0.869	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.270	16.510	0.793	4320.8	3218.1	8.918	5.523	3.19		Clay	100.0			15.60	0.90	n.a.	n.a.	0.89	0.870	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.430	21.540	0.964	4340.8	3228.2	12.000	4.979	3.06		Clay	100.0			20.36	0.89	n.a.	n.a.	0.89	0.870	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.600	25.440	1.091	4362.0	3238.8	14.363	4.690	2.99		Clay	100.0			24.05	0.89	n.a.	n.a.	0.89	0.870	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.760	30.460	1.181	4382.0	3248.8	17.403	4.177	2.89		Clay	94.3			28.79	0.89	n.a.	n.a.	0.89	0.871	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.930	29.420	1.082	4403.3	3259.5	16.701	3.976	2.89		Clay	94.3			27.81	0.89	n.a.	n.a.	0.89	0.871	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.090	28.870	1.108	4423.3	3269.5	16.307	4.154	2.91		Clay	95.9			27.29	0.89	n.a.	n.a.	0.89	0.871	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.250	27.510	1.004	4443.3	3279.5	15.422	3.972	2.92		Clay	96.5			26.00	0.89	n.a.	n.a.	0.89	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.420	22.980	0.811	4464.5	3290.1	12.612	3.910	2.98		Clay	100.0			21.72	0.89	n.a.	n.a.	0.89	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.580	22.190	0.707	4484.5	3300.1	12.089	3.544	2.97		Clay	100.0			20.97	0.89	n.a.	n.a.	0.89	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.750	21.670	0.719	4505.8	3310.8	11.730	3.702	2.99		Clay	100.0			20.48	0.89	n.a.	n.a.	0.89	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.910	20.430	0.737	4525.8	3320.8	10.941	4.055	3.04		Clay	100.0			19.31	0.89	n.a.	n.a.	0.88	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.070	21.410	0.845	4545.8	3330.8	11.491	4.414	3.05		Clay	100.0			20.24	0.89	n.a.	n.a.	0.88	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.240	23.280	0.924	4567.0	3341.5	12.567	4.401	3.02		Clay	100.0			22.00	0.89	n.a.	n.a.	0.88	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.400	23.320	0.905	4587.0	3351.5	12.548	4.302	3.01		Clay	100.0			22.04	0.89	n.a.	n.a.	0.88	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.570	20.890	0.833	4608.3	3362.1	11.056	4.481	3.06		Clay	100.0			19.74	0.89	n.a.	n.a.	0.88	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.730	19.140	0.866	4628.3	3372.1	9.979	5.144	3.14		Clay	100.0			18.09	0.88	n.a.	n.a.	0.88	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.890	21.050	0.928	4648.3	3382.2	11.073	4.958	3.09		Clay	100.0			19.90	0.88	n.a.	n.a.	0.88	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.060	24.070	0.994	4669.5	3392.8	12.813	4.571	3.02		Clay	100.0			22.75	0.88	n.a.	n.a.	0.88	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.220	24.190	0.882	4689.5	3402.8	12.840	4.036	2.99		Clay	100.0			22.86	0.88	n.a.	n.a.	0.88	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.390	23.820	0.787	4710.8	3413.5	12.576	3.667	2.97		Clay	100.0			22.51	0.88	n.a.	n.a.	0.88	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.550	22.840	0.809	4730.8	3423.5	11.961	3.953	3.00		Clay	100.0			21.59	0.88	n.a.	n.a.	0.88	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.710	22.040	0.866	4750.8	3433.5	11.455	4.404	3.05		Clay	100.0			20.83	0.88	n.a.	n.a.	0.88	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.880	21.750	0.826	4772.0	3444.1	11.245	4.268	3.05		Clay	100.0			20.56	0.88	n.a.	n.a.	0.88	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.040	21.270	0.764	4792.0	3454.1	10.928	4.046	3.04		Clay	100.0			20.10	0.88	n.a.	n.a.	0.88	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.210	20.760	0.667	4813.3	3464.8	10.594	3.633	3.02		Clay	100.0			19.62	0.88	n.a.	n.a.	0.87	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.370	19.600	0.630	4833.3	3474.8	9.890	3.666	3.05		Clay	100.0			18.53	0.88	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.530	18.010	0.634	4853.3	3484.8	8.944	4.067	3.11		Clay	100.0			17.02	0.88	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.700	16.440	0.595	4874.5	3495.5	8.012	4.247	3.16		Clay	100.0			15.54	0.88	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.860	16.210	0.629	4894.5	3505.5	7.852	4.569	3.19		Clay	100.0			15.32	0.88	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.030	16.860	0.620	4915.8	3516.1	8.192	4.306	3.16		Clay	100.0			15.94	0.87	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.190	18.500	0.603	4935.8	3526.1	9.093	3.764	3.09		Clay	100.0			17.49	0.87	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.350	17.710	0.549	4955.8	3536.2	8.615	3.604	3.10		Clay	100.0			16.74	0.87	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.520	16.430	0.501	4977.0	3546.8	7.861	3.595	3.13		Clay	100.0			15.53	0.87	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.680	16.530	0.426	4997.0	3556.8	7.890	3.034	3.08		Clay	100.0			15.62	0.87	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.850	16.850	0.396	5018.3	3567.5	8.040	2.762	3.06		Clay	100.0			15.93	0.87	n.a.	n.a.	0.87	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.010	15.230	0.402	5038.3	3577.5	7.106	3.165	3.13		Clay	100.0			14.40	0.87	n.a.	n.a.	0.87	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.170	13.820	0.446	5058.3	3587.5	6.295	3.954	3.23		Clay	100.0			13.06	0.87	n.a.	n.a.	0.87	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.340	14.300	0.457	5079.5	3598.1	6.537	3.888	3.21		Clay	100.0			13.52	0.87	n.a.	n.a.	0.87	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.500	15.750	0.549	5099.5	3608.1	7.317	4.157	3.19		Clay	100.0			14.89	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.670	14.900	0.445	5120.8	3618.8	6.820	3.606	3.18		Clay	100.0			14.08	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.830	14.980	0.426	5140.8	3628.8	6.840	3.432	3.17		Clay	100.0			14.16	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.990	15.540	0.397	5160.8	3638.8	7.123	3.061	3.12		Clay	100.0			14.69	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.160	18.840	0.437	5182.0	3649.5	8.905	2.689	3.01		Clay	100.0			17.81	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.320	21.180	0.524	5202.0	3659.5	10.154	2.822	2.98		Clay	100.0			20.02	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.490	22.840	0.586	5223.3	3670.1	11.023	2.898	2.95		Clay	99.3			21.59	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.650	24.300	0.680	5243.3	3680.1	11.781	3.134	2.95		Clay	99.0			22.97	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.810	24.180	0.724	5263.3	3690.1	11.679	3.361	2.97		Clay	100.0			22.85	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.980	22.240	0.730	5284.5	3700.8	10.591	3.727	3.03		Clay	100.0			21.02	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.140	21.050	0.665	5304.5	3710.8	9.916	3.616	3.05		Clay	100.0			19.90	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.310	20.050	0.691	5325.8	3721.4	9.344	3.974	3.09		Clay	100.0			18.95	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.470	20.470	0.735	5345.8	3731.5	9.539	4.132	3.09		Clay	100.0			19.35	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.640	20.470	0.671	5367.0	3742.1	9.506	3.774	3.07		Clay	100.0			19.35	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.800	19.110	0.541	5387.0	3752.1	8.751	3.297	3.07		Clay	100.0			18.06	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.960	17.600	0.416	5407.0	3762.1	7.919	2.792	3.06		Clay	100.0			16.64	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
44.130	15.980	0.405	5428.3	3772.8	7.032	3.051	3.13		Clay	100.0			15.10	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
44.290	16.320	0.459	5448.3	3782.8	7.188	3.378	3.14		Clay	100.0			15.43	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
44.460	17.140	0.551	5469.5	3793.4	7.595	3.826	3.16		Clay	100.0			16.20	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
44.620	18.020	0.636	5489.5	3803.5	8.032	4.164	3.16		Clay	100.0			17.03	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 2

PGA (A_{max}) 1.00

Total Settlement: 0.24 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	$CRR_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
44.780	17.260	0.618	5509.5	3813.5	7.607	4.257	3.18		Clay	100.0			16.31	0.86	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
44.950	16.390	0.560	5530.8	3824.1	7.126	4.107	3.20		Clay	100.0			15.49	0.86	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.110	16.020	0.492	5550.8	3834.1	6.909	3.711	3.18		Clay	100.0			15.14	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.280	15.720	0.481	5572.0	3844.8	6.728	3.720	3.19		Clay	100.0			14.86	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.440	15.260	0.507	5592.0	3854.8	6.467	4.066	3.23		Clay	100.0			14.42	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.600	15.450	0.552	5612.0	3864.8	6.543	4.365	3.24		Clay	100.0			14.60	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.770	15.760	0.614	5633.3	3875.4	6.680	4.746	3.25		Clay	100.0			14.90	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.930	17.060	0.680	5653.3	3885.5	7.326	4.778	3.22		Clay	100.0			16.12	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.100	18.770	0.717	5674.5	3896.1	8.179	4.499	3.17		Clay	100.0			17.74	0.85	n.a.	n.a.	0.84	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.260	20.370	0.784	5694.5	3906.1	8.972	4.474	3.14		Clay	100.0			19.25	0.85	n.a.	n.a.	0.84	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.420	20.700	0.828	5714.5	3916.1	9.112	4.638	3.14		Clay	100.0			19.57	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.590	22.090	0.866	5735.8	3926.8	9.790	4.506	3.11		Clay	100.0			20.88	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.750	22.490	0.892	5755.8	3936.8	9.964	4.549	3.10		Clay	100.0			21.26	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.920	21.870	0.864	5777.0	3947.4	9.617	4.549	3.12		Clay	100.0			20.67	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.080	21.820	0.837	5797.0	3957.4	9.562	4.421	3.11		Clay	100.0			20.62	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.240	21.170	0.836	5817.0	3967.5	9.206	4.578	3.13		Clay	100.0			20.01	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.410	20.400	0.864	5838.3	3978.1	8.789	4.945	3.17		Clay	100.0			19.28	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.570	20.130	0.907	5858.3	3988.1	8.626	5.274	3.19		Clay	100.0			19.03	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.740	19.290	0.882	5879.5	3998.8	8.178	5.392	3.22		Clay	100.0			18.23	0.85	n.a.	n.a.	0.84	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.900	18.190	0.879	5899.5	4008.8	7.603	5.765	3.26		Clay	100.0			17.19	0.84	n.a.	n.a.	0.84	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.060	17.220	0.818	5919.5	4018.8	7.097	5.735	3.28		Clay	100.0			16.28	0.84	n.a.	n.a.	0.84	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.230	16.970	0.844	5940.8	4029.4	6.949	6.032	3.30		Clay	100.0			16.04	0.84	n.a.	n.a.	0.84	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.390	17.210	0.785	5960.8	4039.5	7.045	5.515	3.27		Clay	100.0			16.27	0.84	n.a.	n.a.	0.83	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.560	16.760	0.690	5982.0	4050.1	6.799	5.014	3.26		Clay	100.0			15.84	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.720	16.530	0.613	6002.0	4060.1	6.664	4.532	3.24		Clay	100.0			15.62	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.880	16.090	0.572	6022.0	4070.1	6.427	4.370	3.25		Clay	100.0			15.21	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
49.050	16.030	0.536	6043.3	4080.8	6.375	4.122	3.24		Clay	100.0			15.15	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
49.210	16.190	0.524	6063.3	4090.8	6.433	3.982	3.22		Clay	100.0			15.30	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
49.380	17.200	0.548	6084.5	4101.4	6.904	3.869	3.19		Clay	100.0			16.26	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
49.540	18.090	0.587	6104.5	4111.4	7.315	3.905	3.17		Clay	100.0			17.10	0.84	n.a.	n.a.	0.83	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
49.700	17.650	0.556	6124.5	4121.5	7.079	3.812	3.18		Clay	100.0			16.68	0.84	n.a.	n.a.	0.83	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
49.870	17.070	0.554	6145.8	4132.1	6.775	3.954	3.20		Clay	100.0			16.13	0.84	n.a.	n.a.	0.83	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
50.030	16.360	0.568	6165.8	4142.1	6.411	4.278	3.24		Clay	100.0			15.46	0.84	n.a.	n.a.	0.83	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
50.200	16.160	0.538	6187.0	4152.8	6.293	4.114	3.24		Clay	100.0			15.27	0.84	n.a.	n.a.	0.83	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
50.360	16.100	0.490	6207.0	4162.8	6.244	3.773	3.22		Clay	100.0			15.22	0.84	n.a.	n.a.	0.83	0.871	n.a.	n.a.	n.a.	n.a.	0.00	0.00
50.520	15.470	0.432	6227.0	4172.8	5.922	3.495	3.22		Clay	100.0			14.62	0.84	n.a.	n.a.	0.83	0.871	n.a.	n.a.	n.a.	n.a.	0.00	0.00
50.690	15.280	0.421	6248.3	4183.4	5.811	3.462	3.23		Clay	100.0			14.44	0.84	n.a.	n.a.	0.82	0.871	n.a.	n.a.	n.a.	n.a.	0.00	0.00
50.850	15.770	0.453	6268.3	4193.5	6.026	3.583	3.22		Clay	100.0			14.91	0.83	n.a.	n.a.	0.82	0.871	n.a.	n.a.	n.a.	n.a.	0.00	0.00
51.020	16.670	0.485	6289.5	4204.1	6.434	3.589	3.20		Clay	100.0			15.76	0.83	n.a.	n.a.	0.82	0.870	n.a.	n.a.	n.a.	n.a.	0.00	0.00
51.180	17.670	0.499	6309.5	4214.1	6.889	3.437	3.16		Clay	100.0			16.70	0.83	n.a.	n.a.	0.82	0.870	n.a.	n.a.	n.a.	n.a.	0.00	0.00
51.350	17.720	0.484	6330.8	4224.8	6.890	3.325	3.16		Clay	100.0			16.75	0.83	n.a.	n.a.	0.82	0.870	n.a.	n.a.	n.a.	n.a.	0.00	0.00
51.510	18.140	0.484	6350.8	4234.8	7.068	3.234	3.14		Clay	100.0			17.15	0.83	n.a.	n.a.	0.82	0.870	n.a.	n.a.	n.a.	n.a.	0.00	0.00
51.670	18.110	0.460	6370.8	4244.8	7.032	3.085	3.13		Clay	100.0			17.12	0.83	n.a.	n.a.	0.82	0.869	n.a.	n.a.	n.a.	n.a.	0.00	0.00
51.840	18.160	0.442	6392.0	4255.4	7.033	2.950	3.12		Clay	100.0			17.16	0.83	n.a.	n.a.	0.82	0.869	n.a.	n.a.	n.a.	n.a.	0.00	0.00
52.000	18.730	0.474	6412.0	4265.4	7.279	3.050	3.12		Clay	100.0			17.70	0.83	n.a.	n.a.	0.82	0.869	n.a.	n.a.	n.a.	n.a.	0.00	0.00
52.170	19.360	0.486	6433.3	4276.1	7.551	3.007	3.10		Clay	100.0			18.30	0.83	n.a.	n.a.	0.82	0.869	n.a.	n.a.	n.a.	n.a.	0.00	0.00
52.330	20.920	0.426	6453.3	4286.1	8.256	2.405	3.01		Clay	100.0			19.77	0.83	n.a.	n.a.	0.82	0.868	n.a.	n.a.	n.a.	n.a.	0.00	0.00
52.490	21.410	0.411	6473.3	4296.1	8.460	2.264	2.99		Clay	100.0			20.24	0.83	n.a.	n.a.	0.82	0.868	n.a.	n.a.	n.a.	n.a.	0.00	0.00
52.660	20.520	0.436	6494.5	4306.8	8.021	2.526	3.04		Clay	100.0			19.40	0.83	n.a.	n.a.	0.82	0.868	n.a.	n.a.	n.a.	n.a.	0.00	0.00
52.820	21.790	0.794	6514.5	4316.8	8.586	4.282	3.14		Clay	100.0			20.60	0.83	n.a.	n.a.	0.82	0.868	n.a.	n.a.	n.a.	n.a.	0.00	0.00
52.990	21.970	1.425	6535.8	4327.4	8.644	7.620	3.29		Clay	100.0			20.77	0.83	n.a.	n.a.	0.81	0.867	n.a.	n.a.	n.a.	n.a.	0.00	0.00
53.150	29.510	1.676	6555.8	4337.4	12.096	6.390	3.13		Clay	100.0			27.89	0.83	n.a.	n.a.	0.81	0.867	n.a.	n.a.	n.a.	n.a.	0.00	0.00
53.310	48.570	1.240	6575.8	4347.4	20.832	2.739	2.72		Clay	80.3			45.91	0.83	n.a.	n.a.	0.81	0.867	n.a.	n.a.	n.a.	n.a.	0.00	0.00
53.480	53.590	0.842	6597.0	4358.1	33.122	1.673	2.43		Sand	57.1			50.65	0.69	34.91	92.59	0.81	0.866	0.928	0.128	0.146	0.17	0.03	0.00
53.640	44.620	0.649	6617.0	4368.1	18.915	1.571	2.61		Clay	71.9			42.17	0.83	n.a.	n.a.	0.81	0.866	n.a.	n.a.	n.a.	n.a.	0.00	0.00
53.810	31.770	0.555	6638.3	4378.7	12.995	1.951	2.80		Clay	86.9			30.03	0.83	n.a.	n.a.	0.81	0.866	n.a.	n.a.	n.a.	n.a.	0.00	0.00
53.970	21.630	0.411	6658.3	4388.8	8.340	2.245	2.99		Clay	100.0			20.44	0.82	n.a.	n.a.	0.81	0.866	n.a.	n.a.	n.a.	n.a.	0.00	0.00
54.130	17.620	0.314	6678.3	4398.8	6.493	2.199	3.08		Clay	100.0			16.65	0.82	n.a.	n.a.	0.81	0.865	n.a.	n.a.	n.a.	n.a.	0.00	0.00
54.300	16.440	0.267	6699.5	4409.4	5.937	2.038	3.10		Clay	100.0			15.54	0.82	n.a.	n.a.	0.81	0.865	n.a.	n.a.	n.a.	n.a.	0.00	0.00
54.460	16.140	0.236	6719.5	4419.4	5.784	1.847	3.09		Clay	100.0			15.26	0.82	n.a.	n.a.	0.81	0.865	n.a.	n.a.	n.a.	n.a.	0.00	0.00
54.630	16.580	0.171	6740.8	4430.1	5.964	1.296	3.01		Clay	100.0			15.67	0.82	n.a.	n.a.	0.81	0.864	n.a.	n.a.	n.a.	n.a.	0.00	0.00
54.790	16.560	0.225	6760.8	4440.1	5.937	1.709	3.06		Clay	100.0			15.65	0.82	n.a.	n.a.	0.81	0.864	n.a.	n.a.	n.a.	n.a.	0.00	0.00
54.950	16.880	0.240	6780.8	4450.1	6.063	1.775	3.06		Clay	100.0			15.95	0.82	n.a.	n.a.	0.81	0.864	n.a.	n.a.	n.a.	n.a.	0.00	0.00
55.120	19.220	0.241	6802.0	4460.8	7.093	1.522	2.97		Clay	100.0			18.17	0.82	n.a.	n.a.	0.81	0.863	n.a.	n.a.	n.a.	n.a.	0.00	0.00
55.280	19.810	0.216	6822.0	4470.8	7.336	1.319	2.93		Clay	97.3			18.72	0.82	n.a.	n.a.	0.80	0.863	n.a.	n.a.	n.a.	n.a.	0.00	0.00
55.450	20.950	0.261	6843.3	4481.4	7.823	1.487	2.93		Clay	97.3			19.80	0.82	n.a.	n.a.	0.80	0.863	n.a.	n.a.	n.a.	n.a.	0.00	0.00
55.610	27.520	0.371	6863.3	4491.4	10.726	1.541	2.82		Clay	88.3			26.01	0.82	n.a.	n.a.	0.80	0.863	n.a.	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 2

PGA (A_{max}) 1.00

Total Settlement: 0.24 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	CRR$_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
55.770	23.920	0.716	6883.3	4501.4	9.099	3.495	3.07		Clay	100.0			22.61	0.82	n.a.	n.a.	0.80	0.862	n.a.	n.a.	n.a.	n.a.	0.00	0.00
55.940	31.650	1.532	6904.5	4512.1	12.499	5.433	3.07		Clay	100.0			29.91	0.82	n.a.	n.a.	0.80	0.862	n.a.	n.a.	n.a.	n.a.	0.00	0.00
56.100	38.340	2.178	6924.5	4522.1	15.425	6.246	3.04		Clay	100.0			36.24	0.82	n.a.	n.a.	0.80	0.862	n.a.	n.a.	n.a.	n.a.	0.00	0.00
56.270	55.680	2.766	6945.8	4532.7	23.036	5.298	2.87		Clay	92.4			52.63	0.82	n.a.	n.a.	0.80	0.861	n.a.	n.a.	n.a.	n.a.	0.00	0.00
56.430	75.900	3.110	6965.8	4542.8	31.882	4.295	2.70		Clay	79.2			71.74	0.82	n.a.	n.a.	0.80	0.861	n.a.	n.a.	n.a.	n.a.	0.00	0.00
56.590	132.240	3.445	6985.8	4552.8	82.961	2.676	2.26		Sand	44.0			124.99	0.74	92.92	160.13	0.80	0.861	0.866	0.373	0.579	0.67	0.02	0.00
56.760	212.690	3.705	7007.0	4563.4	134.636	1.771	1.99		Sand	22.1			201.03	0.78	157.29	207.82	0.80	0.860	0.778	3.023	5.176	6.02	0.00	0.00
56.920	220.100	3.627	7027.0	4573.4	139.246	1.674	1.96		Sand	19.8			208.03	0.78	162.62	207.61	0.80	0.860	0.778	2.983	5.107	5.94	0.00	0.00
57.090	247.670	3.110	7048.3	4584.1	156.782	1.274	1.84		Sand	10.1			234.09	0.77	179.52	189.79	0.80	0.860	0.819	1.113	2.005	2.33	0.00	0.00
57.250	258.020	3.450	7068.3	4594.1	163.244	1.356	1.85		Sand	10.7			243.88	0.78	189.32	202.15	0.80	0.859	0.791	2.137	3.720	4.33	0.00	0.00
57.410	262.400	4.854	7088.3	4604.1	165.866	1.875	1.95		Sand	18.8			248.02	0.81	200.84	247.27	0.80	0.859	0.767	94.848	159.999	186.29	0.00	0.00
57.580	225.160	6.313	7109.5	4614.7	141.833	2.849	2.13		Sand	33.5			212.82	0.81	172.34	248.04	0.79	0.858	0.766	103.605	174.614	203.40	0.00	0.00
57.740	194.750	5.725	7129.5	4624.8	122.231	2.994	2.19		Sand	38.1			184.07	0.79	145.19	220.27	0.79	0.858	0.765	7.282	12.262	14.29	0.00	0.00
57.910	166.540	4.368	7150.8	4635.4	104.069	2.680	2.20		Sand	38.8			157.41	0.76	120.30	190.15	0.79	0.858	0.815	1.132	2.031	2.37	0.00	0.00
58.070	146.480	3.935	7170.8	4645.4	91.154	2.754	2.24		Sand	42.5			138.45	0.75	103.65	172.53	0.79	0.857	0.845	0.549	0.914	1.07	0.01	0.00
58.230	155.860	3.580	7190.8	4655.4	97.027	2.351	2.18		Sand	37.0			147.32	0.75	110.74	176.71	0.79	0.857	0.839	0.639	1.091	1.27	0.00	0.00
58.400	146.370	3.728	7212.0	4666.1	90.869	2.612	2.23		Sand	41.2			138.35	0.75	103.23	171.04	0.79	0.857	0.847	0.521	0.860	1.00	0.01	0.00
58.560	157.010	3.518	7232.0	4676.1	97.530	2.293	2.17		Sand	36.3			148.40	0.75	111.38	176.75	0.79	0.856	0.838	0.640	1.092	1.27	0.00	0.00
58.730	154.750	3.349	7253.3	4686.7	95.977	2.216	2.16		Sand	35.8			146.27	0.75	109.30	173.71	0.79	0.856	0.842	0.572	0.958	1.12	0.01	0.00
58.890	172.860	2.863	7273.3	4696.8	107.358	1.692	2.04		Sand	26.3			163.38	0.75	122.39	176.49	0.79	0.856	0.837	0.634	1.078	1.26	0.00	0.00
59.060	179.810	2.372	7294.5	4707.4	111.634	1.346	1.96		Sand	19.8			169.95	0.74	125.56	165.56	0.79	0.855	0.853	0.437	0.696	0.81	0.01	0.00
59.220	166.090	2.141	7314.5	4717.4	102.824	1.318	1.98		Sand	21.4			156.98	0.73	114.68	157.16	0.79	0.855	0.863	0.344	0.521	0.61	0.02	0.00
59.380	148.280	1.931	7334.5	4727.4	91.446	1.335	2.02		Sand	24.7			140.15	0.72	101.15	148.51	0.79	0.855	0.873	0.279	0.402	0.47	0.02	0.00
59.550	171.130	1.913	7355.8	4738.1	105.770	1.143	1.93		Sand	17.4			161.75	0.72	116.62	148.48	0.79	0.854	0.873	0.279	0.402	0.47	0.02	0.00
59.710	211.850	2.040	7375.8	4748.1	131.345	0.980	1.81		Sand	8.2			200.24	0.72	144.19	148.19	0.79	0.854	0.873	0.277	0.398	0.47	0.02	0.00
59.880	240.580	1.978	7397.0	4758.7	149.299	0.835	1.73		Sand	1.2			227.39	0.74	167.76	167.76	0.78	0.853	0.848	0.468	0.754	0.88	0.01	0.00
60.040	245.920	2.228	7417.0	4768.7	152.498	0.920	1.75		Sand	2.9			232.44	0.74	172.30	172.30	0.78	0.853	0.841	0.545	0.901	1.06	0.01	0.00
60.200	255.680	1.760	7437.0	4778.8	158.471	0.699	1.66		Sand	0.0			241.66	0.75	180.83	180.83	0.78	0.853	0.826	0.751	1.305	1.53	0.00	0.00
60.370	257.050	2.235	7458.3	4789.4	159.148	0.882	1.72		Sand	0.8			242.96	0.75	181.87	181.87	0.78	0.852	0.824	0.784	1.369	1.61	0.00	0.00
60.530	240.800	2.299	7478.3	4799.4	148.778	0.970	1.77		Sand	4.8			227.60	0.74	167.32	167.44	0.78	0.852	0.847	0.463	0.743	0.87	0.01	0.00
60.700	248.500	2.202	7499.5	4810.1	153.433	0.899	1.74		Sand	2.2			234.88	0.74	173.90	173.90	0.78	0.852	0.836	0.576	0.960	1.13	0.01	0.00
60.860	265.610	2.586	7519.5	4820.1	163.983	0.988	1.75		Sand	2.7			251.05	0.75	189.08	189.08	0.78	0.851	0.808	1.076	1.915	2.25	0.00	0.00
61.020	305.910	2.423	7539.5	4830.1	189.018	0.802	1.64		Sand	0.0			289.14	0.78	226.50	226.50	0.78	0.851	0.752	12.090	20.012	23.52	0.00	0.00
61.190	283.120	2.865	7560.8	4840.7	174.562	1.026	1.74		Sand	2.1			267.60	0.77	204.80	204.80	0.78	0.850	0.770	2.504	4.241	4.99	0.00	0.00
61.350	300.620	3.078	7580.8	4850.8	185.300	1.037	1.72		Sand	0.9			284.14	0.78	221.08	221.08	0.78	0.850	0.751	7.760	12.822	15.09	0.00	0.00
61.520	328.420	3.954	7602.0	4861.4	202.426	1.218	1.75		Sand	2.9			310.42	0.80	247.81	247.81	0.78	0.850	0.750	100.872	166.541	196.03	0.00	0.00
61.680	350.210	4.832	7622.0	4871.4	215.785	1.395	1.78		Sand	5.0			331.01	0.80	265.65	265.91	0.78	0.849	0.750	1058.698	1746.486	2056.65	0.00	0.00
61.840	386.310	4.614	7642.0	4881.4	238.022	1.206	1.70		Sand	0.0			365.13	0.80	292.87	292.87	0.78	0.849	0.749	#########	########	213340.78	0.00	0.00
62.010	401.920	4.005	7663.3	4892.1	247.460	1.006	1.63		Sand	0.0			379.89	0.80	304.53	304.53	0.78	0.848	0.749	#########	########	2603770.44	0.00	0.00
62.170	319.930	2.993	7683.3	4902.1	196.286	0.947	1.68		Sand	0.0			302.39	0.79	238.76	238.76	0.77	0.848	0.748	37.882	62.335	73.51	0.00	0.00
62.340	299.150	2.642	7704.5	4912.7	183.177	0.895	1.68		Sand	0.0			282.75	0.77	218.59	218.59	0.77	0.848	0.747	6.402	10.525	12.42	0.00	0.00
62.500	258.470	2.249	7724.5	4922.7	157.776	0.883	1.73		Sand	1.0			244.30	0.74	180.89	180.89	0.77	0.847	0.820	0.753	1.299	1.53	0.00	0.00
62.660	250.240	1.781	7744.5	4932.8	152.515	0.723	1.68		Sand	0.0			236.52	0.73	173.40	173.40	0.77	0.847	0.832	0.566	0.934	1.10	0.01	0.00
62.830	248.400	1.809	7765.8	4943.4	151.206	0.740	1.69		Sand	0.0			234.78	0.73	171.60	171.60	0.77	0.846	0.835	0.531	0.868	1.03	0.01	0.00
62.990	253.730	2.164	7785.8	4953.4	154.339	0.866	1.73		Sand	1.2			239.82	0.73	176.15	176.15	0.77	0.846	0.827	0.626	1.049	1.24	0.00	0.00
63.160	254.700	2.442	7807.0	4964.1	154.766	0.974	1.76		Sand	3.8			240.74	0.73	176.84	176.86	0.77	0.846	0.825	0.643	1.081	1.28	0.00	0.00
63.320	267.430	2.411	7827.0	4974.1	162.452	0.915	1.73		Sand	1.1			252.77	0.74	188.10	188.10	0.77	0.845	0.803	1.029	1.818	2.15	0.00	0.00
63.480	294.100	2.588	7847.0	4984.1	178.707	0.892	1.69		Sand	0.0			277.98	0.76	212.57	212.57	0.77	0.845	0.743	4.144	6.773	8.02	0.00	0.00
63.650	319.130	2.999	7868.3	4994.7	193.908	0.951	1.68		Sand	0.0			301.64	0.78	236.33	236.33	0.77	0.844	0.742	29.733	48.559	57.51	0.00	0.00
63.810	292.680	2.150	7888.3	5004.7	177.452	0.745	1.64		Sand	0.0			276.64	0.76	210.87	210.87	0.77	0.844	0.742	3.693	6.026	7.14	0.00	0.00
63.980	277.620	2.401	7909.5	5015.4	168.012	0.877	1.70		Sand	0.0			262.40	0.75	196.70	196.70	0.77	0.844	0.782	1.577	2.712	3.21	0.00	0.00
64.140	228.270	2.147	7929.5	5025.4	137.571	0.957	1.79		Sand	6.4			215.76	0.71	153.14	154.28	0.77	0.843	0.856	0.320	0.471	0.56	0.02	0.00
64.300	212.680	1.666	7949.5	5035.4	127.876	0.798	1.77		Sand	4.2			201.02	0.69	139.57	139.61	0.77	0.843	0.873	0.233	0.316	0.38	0.02	0.00
64.470	243.410	1.858	7970.8	5046.1	146.543	0.776	1.71		Sand	0.0			230.07	0.72	165.56	165.56	0.77	0.842	0.840	0.437	0.685	0.81	0.01	0.00
64.630	289.210	2.572	7990.8	5056.1	174.396	0.902	1.70		Sand	0.0			273.36	0.76	206.74	206.74	0.76	0.842	0.752	2.823	4.670	5.55	0.00	0.00
64.800	295.770	3.887	8012.0	5066.7	178.213	1.332	1.81		Sand	8.2			279.56	0.77	214.20	219.09	0.76	0.841	0.738	6.649	10.797	12.83	0.00	0.00
64.960	289.250	3.958	8032.0	5076.7	174.053	1.388	1.83		Sand	9.8			273.39	0.77	209.44	219.44	0.76	0.841	0.737	6.832	11.085	13.18	0.00	0.00
65.120	306.810	2.628	8052.0	5086.8	184.580	0.868	1.67		Sand	0.0			289.99	0.77	222.84	222.84	0.76	0.841	0.737	8.924	14.466	17.21	0.00	0.00
65.290	276.050	2.438	8073.3	5097.4	165.649	0.896	1.71		Sand	0.2			260.92	0.74	193.88	193.88	0.76	0.840	0.784	1.361	2.350	2.80	0.00	0.00
65.450	279.000	2.481	8093.3	5107.4	167.275	0.902	1.71		Sand	0.1			263.71	0.74	196.42	196.42	0.76	0.840	0.778	1.553	2.658	3.16	0.00	0.00
65.620	279.900	2.477	8114.5	5118.1	167.641	0.898	1.71		Sand	0.0			264.56	0.74	197.07	197.07	0.76	0.839	0.776	1.608	2.744	3.27	0.00	0.00
65.780	255.250	2.759	8134.5	5128.1	152.505	1.098	1.80		Sand	7.1			241.26	0.73	175.29	177.45	0.76	0.839	0.817	0.657	1.100	1.31	0.00	0.00
65.940	269.430	2.845	8154.5	5138.1	160.952	1.072	1.78		Sand	5.2			254.66	0.74	187.27	187.55	0.76	0.839	0.797	1.003	1.758	2.10	0.00	0.00
66.110	290.460	2.911	8175.8	5148.7	173.521	1.016	1.74		Sand	2.0			274.54	0.75	206.33	206.33	0.76	0.838	0.748	2.752	4.528	5.40	0.00	0.00
66.270	287.020	1.943	8195.8	5158.7	171.264	0.687	1.63		Sand	0.0			271.29	0.75	202.96	202.96	0.76	0.838	0.758	2.242	3.736	4.46	0.00	0.00
66.440	266.100	1.711	8217.0	5169.4	158.431	0.653	1.64		Sand	0.0			251.51	0.73	183.67	183.67	0.76	0.837	0.804	0.845	1.462	1.75	0.00	0.00
66.600	250.670	2.101	8237.0	5179.4	148.950	0.852	1.73		Sand	1.7			236.93	0.72	169.80	169.80	0.76	0.837	0.829	0.500	0.799	0.96	0.01	0.00

CORNERSTONE EARTH GROUP

CPT No. 2

PGA (A_{max}) 1.00

Total Settlement: 0.24 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	CRR$_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
66.770	236.530	2.058	8258.3	5190.0	140.257	0.886	1.76		Sand	4.2			223.56	0.70	157.37	157.41	0.76	0.836	0.847	0.346	0.516	0.62	0.02	0.00
66.930	248.290	2.311	8278.3	5200.1	147.206	0.947	1.77		Sand	4.4			234.68	0.71	167.41	167.48	0.76	0.836	0.832	0.464	0.731	0.87	0.01	0.00
67.090	231.240	2.324	8298.3	5210.1	136.789	1.023	1.81		Sand	8.2			218.56	0.70	153.69	157.74	0.75	0.836	0.846	0.349	0.521	0.62	0.02	0.00
67.260	265.660	2.335	8319.5	5220.7	157.355	0.893	1.73		Sand	1.4			251.10	0.73	182.44	182.44	0.75	0.835	0.804	0.802	1.375	1.65	0.00	0.00
67.420	302.100	1.867	8339.5	5230.7	179.104	0.627	1.59		Sand	0.0			285.54	0.76	215.89	215.89	0.75	0.835	0.728	5.242	8.402	10.07	0.00	0.00
67.590	297.920	3.305	8360.8	5241.4	176.406	1.125	1.76		Sand	4.1			281.59	0.75	211.78	211.82	0.75	0.834	0.728	3.936	6.303	7.56	0.00	0.00
67.750	337.080	2.763	8380.8	5251.4	199.726	0.830	1.63		Sand	0.0			318.60	0.78	249.53	249.53	0.75	0.834	0.727	123.138	197.032	236.30	0.00	0.00
67.910	337.820	2.778	8400.8	5261.4	199.974	0.833	1.63		Sand	0.0			319.30	0.78	250.09	250.09	0.75	0.833	0.727	131.641	210.471	252.55	0.00	0.00
68.080	365.040	2.608	8422.0	5272.0	216.065	0.723	1.57		Sand	0.0			345.03	0.79	271.18	271.18	0.75	0.833	0.726	2338.486	3735.712	4484.98	0.00	0.00
68.240	341.280	2.205	8442.0	5282.1	201.640	0.654	1.56		Sand	0.0			322.57	0.78	253.19	253.19	0.75	0.833	0.726	191.655	305.927	367.47	0.00	0.00
68.410	344.900	2.525	8463.3	5292.7	203.594	0.741	1.59		Sand	0.0			325.99	0.79	255.95	255.95	0.75	0.832	0.725	271.272	432.655	519.98	0.00	0.00
68.570	346.100	2.211	8483.3	5302.7	204.112	0.647	1.55		Sand	0.0			327.13	0.78	256.72	256.72	0.75	0.832	0.724	299.259	476.917	573.47	0.00	0.00
68.730	334.120	1.939	8503.3	5312.7	196.768	0.588	1.54		Sand	0.0			315.80	0.78	245.54	245.54	0.75	0.831	0.724	77.948	124.125	149.33	0.00	0.00
68.900	279.170	1.653	8524.5	5323.4	163.819	0.601	1.60		Sand	0.0			263.87	0.73	193.01	193.01	0.75	0.831	0.776	1.303	2.224	2.68	0.00	0.00
69.060	241.030	1.470	8544.5	5333.4	140.953	0.621	1.66		Sand	0.0			227.82	0.70	159.05	159.05	0.75	0.830	0.840	0.362	0.541	0.65	0.02	0.00
69.230	227.000	2.348	8565.8	5344.0	132.462	1.054	1.83		Sand	9.7			214.56	0.70	149.31	157.39	0.75	0.830	0.842	0.346	0.512	0.62	0.02	0.00
69.390	240.530	3.282	8585.8	5354.1	140.371	1.389	1.90		Sand	14.9			227.34	0.73	166.33	194.71	0.75	0.829	0.770	1.420	2.407	2.90	0.00	0.00
69.550	258.340	3.944	8605.8	5364.1	150.807	1.552	1.91		Sand	16.0			244.18	0.75	183.59	217.77	0.74	0.829	0.721	6.020	9.548	11.52	0.00	0.00
69.720	229.990	2.904	8627.0	5374.7	133.838	1.287	1.89		Sand	14.2			217.38	0.72	155.98	180.78	0.74	0.829	0.801	0.749	1.262	1.52	0.00	0.00
69.880	259.780	2.391	8647.0	5384.7	151.359	0.936	1.76		Sand	3.5			245.54	0.71	174.60	174.61	0.74	0.828	0.813	0.591	0.962	1.16	0.01	0.00
70.050	280.680	2.305	8668.3	5395.4	163.574	0.834	1.70		Sand	0.0			265.29	0.73	193.23	193.23	0.74	0.828	0.772	1.317	2.237	2.70	0.00	0.00
70.210	303.540	1.565	8688.3	5405.4	176.935	0.523	1.54		Sand	0.0			286.90	0.75	214.33	214.33	0.74	0.827	0.719	4.689	7.413	8.96	0.00	0.00
70.370	299.800	1.450	8708.3	5415.4	174.556	0.491	1.53		Sand	0.0			283.36	0.74	210.64	210.64	0.74	0.827	0.719	3.635	5.750	6.95	0.00	0.00
70.540	294.660	1.580	8729.5	5426.0	171.345	0.544	1.56		Sand	0.0			278.51	0.74	205.64	205.64	0.74	0.826	0.735	2.637	4.266	5.16	0.00	0.00
70.700	284.220	1.322	8749.5	5436.1	165.024	0.472	1.54		Sand	0.0			268.64	0.73	195.81	195.81	0.74	0.826	0.764	1.505	2.528	3.06	0.00	0.00
70.870	244.100	1.248	8770.8	5446.7	141.221	0.520	1.62		Sand	0.0			230.72	0.69	159.98	159.98	0.74	0.825	0.835	0.371	0.555	0.67	0.02	0.00
71.030	198.650	1.928	8790.8	5456.7	114.335	0.992	1.86		Sand	12.1			187.76	0.67	126.47	141.72	0.74	0.825	0.859	0.242	0.328	0.40	0.02	0.00
71.190	131.320	2.549	8810.8	5466.7	74.631	2.008	2.21		Sand	39.5			124.12	0.68	84.11	145.98	0.74	0.825	0.853	0.264	0.366	0.44	0.02	0.00
71.360	70.230	2.038	8832.0	5477.4	24.031	3.096	2.70		Clay	79.0			66.38	0.78	n.a.	n.a.	0.74	0.824	n.a.	n.a.	n.a.	n.a.	0.00	0.00
71.520	44.150	1.577	8852.0	5487.4	14.478	3.970	2.94		Clay	98.2			41.73	0.78	n.a.	n.a.	0.74	0.824	n.a.	n.a.	n.a.	n.a.	0.00	0.00
71.690	28.490	1.026	8873.3	5498.0	8.750	4.266	3.13		Clay	100.0			26.93	0.78	n.a.	n.a.	0.74	0.823	n.a.	n.a.	n.a.	n.a.	0.00	0.00
71.850	27.730	0.980	8893.3	5508.1	8.454	4.207	3.14		Clay	100.0			26.21	0.78	n.a.	n.a.	0.74	0.823	n.a.	n.a.	n.a.	n.a.	0.00	0.00
72.010	27.280	1.062	8913.3	5518.1	8.272	4.653	3.17		Clay	100.0			25.78	0.78	n.a.	n.a.	0.74	0.822	n.a.	n.a.	n.a.	n.a.	0.00	0.00
72.180	28.570	1.175	8934.5	5528.7	8.719	4.875	3.17		Clay	100.0			27.00	0.78	n.a.	n.a.	0.73	0.822	n.a.	n.a.	n.a.	n.a.	0.00	0.00
72.340	31.330	1.160	8954.5	5538.7	9.696	4.320	3.10		Clay	100.0			29.61	0.78	n.a.	n.a.	0.73	0.822	n.a.	n.a.	n.a.	n.a.	0.00	0.00
72.510	33.080	1.112	8975.8	5549.4	10.305	3.888	3.05		Clay	100.0			31.27	0.78	n.a.	n.a.	0.73	0.821	n.a.	n.a.	n.a.	n.a.	0.00	0.00
72.670	32.320	1.071	8995.8	5559.4	10.009	3.849	3.06		Clay	100.0			30.55	0.78	n.a.	n.a.	0.73	0.821	n.a.	n.a.	n.a.	n.a.	0.00	0.00
72.830	34.200	1.041	9015.8	5569.4	10.663	3.507	3.01		Clay	100.0			32.33	0.77	n.a.	n.a.	0.73	0.820	n.a.	n.a.	n.a.	n.a.	0.00	0.00
73.000	35.280	1.046	9037.0	5580.0	11.026	3.400	2.99		Clay	100.0			33.35	0.77	n.a.	n.a.	0.73	0.820	n.a.	n.a.	n.a.	n.a.	0.00	0.00
73.160	32.520	1.007	9057.0	5590.1	10.015	3.599	3.04		Clay	100.0			30.74	0.77	n.a.	n.a.	0.73	0.819	n.a.	n.a.	n.a.	n.a.	0.00	0.00
73.330	30.010	0.953	9078.3	5600.7	9.096	3.742	3.09		Clay	100.0			28.36	0.77	n.a.	n.a.	0.73	0.819	n.a.	n.a.	n.a.	n.a.	0.00	0.00
73.490	29.200	0.882	9098.3	5610.7	8.787	3.578	3.09		Clay	100.0			27.60	0.77	n.a.	n.a.	0.73	0.818	n.a.	n.a.	n.a.	n.a.	0.00	0.00
73.650	27.950	0.807	9118.3	5620.7	8.323	3.450	3.10		Clay	100.0			26.42	0.77	n.a.	n.a.	0.73	0.818	n.a.	n.a.	n.a.	n.a.	0.00	0.00
73.820	27.080	0.767	9139.5	5631.4	7.995	3.406	3.11		Clay	100.0			25.60	0.77	n.a.	n.a.	0.73	0.818	n.a.	n.a.	n.a.	n.a.	0.00	0.00
73.980	27.140	0.765	9159.5	5641.4	7.998	3.390	3.11		Clay	100.0			25.65	0.77	n.a.	n.a.	0.73	0.817	n.a.	n.a.	n.a.	n.a.	0.00	0.00
74.150	27.350	0.749	9180.8	5652.0	8.054	3.290	3.10		Clay	100.0			25.85	0.77	n.a.	n.a.	0.73	0.817	n.a.	n.a.	n.a.	n.a.	0.00	0.00
74.310	25.980	0.736	9200.8	5662.0	7.552	3.440	3.13		Clay	100.0			24.56	0.77	n.a.	n.a.	0.73	0.816	n.a.	n.a.	n.a.	n.a.	0.00	0.00
74.480	25.290	0.764	9222.0	5672.7	7.291	3.697	3.16		Clay	100.0			23.90	0.77	n.a.	n.a.	0.73	0.816	n.a.	n.a.	n.a.	n.a.	0.00	0.00
74.640	26.010	0.804	9242.0	5682.7	7.528	3.761	3.15		Clay	100.0			24.58	0.77	n.a.	n.a.	0.73	0.815	n.a.	n.a.	n.a.	n.a.	0.00	0.00
74.800	23.900	0.885	9262.0	5692.7	6.770	4.591	3.24		Clay	100.0			22.59	0.77	n.a.	n.a.	0.72	0.815	n.a.	n.a.	n.a.	n.a.	0.00	0.00
74.970	24.070	0.748	9283.3	5703.4	6.813	3.849	3.20		Clay	100.0			22.75	0.77	n.a.	n.a.	0.72	0.814	n.a.	n.a.	n.a.	n.a.	0.00	0.00
75.130	23.210	0.664	9303.3	5713.4	6.496	3.580	3.20		Clay	100.0			21.94	0.77	n.a.	n.a.	0.72	0.814	n.a.	n.a.	n.a.	n.a.	0.00	0.00
75.300	21.350	0.545	9324.5	5724.0	5.831	3.263	3.21		Clay	100.0			20.18	0.77	n.a.	n.a.	0.72	0.814	n.a.	n.a.	n.a.	n.a.	0.00	0.00
75.460	19.580	0.499	9344.5	5734.0	5.200	3.345	3.26		Clay	100.0			18.51	0.77	n.a.	n.a.	0.72	0.813	n.a.	n.a.	n.a.	n.a.	0.00	0.00
75.620	18.030	0.515	9364.5	5744.1	4.648	3.856	3.33		Clay	100.0			17.04	0.77	n.a.	n.a.	0.72	0.813	n.a.	n.a.	n.a.	n.a.	0.00	0.00
75.790	17.830	0.617	9385.8	5754.7	4.566	4.694	3.39		Clay	100.0			16.85	0.77	n.a.	n.a.	0.72	0.812	n.a.	n.a.	n.a.	n.a.	0.00	0.00
75.950	20.820	0.720	9405.8	5764.7	5.592	4.467	3.30		Clay	100.0			19.68	0.77	n.a.	n.a.	0.72	0.812	n.a.	n.a.	n.a.	n.a.	0.00	0.00
76.120	24.290	0.840	9427.0	5775.4	6.779	4.292	3.22		Clay	100.0			22.96	0.77	n.a.	n.a.	0.72	0.811	n.a.	n.a.	n.a.	n.a.	0.00	0.00
76.280	25.410	0.899	9447.0	5785.4	7.151	4.345	3.21		Clay	100.0			24.02	0.77	n.a.	n.a.	0.72	0.811	n.a.	n.a.	n.a.	n.a.	0.00	0.00
76.440	29.170	0.848	9467.0	5795.4	8.433	3.469	3.09		Clay	100.0			27.57	0.77	n.a.	n.a.	0.72	0.810	n.a.	n.a.	n.a.	n.a.	0.00	0.00
76.610	30.100	0.767	9488.3	5806.0	8.734	3.024	3.05		Clay	100.0			28.45	0.77	n.a.	n.a.	0.72	0.810	n.a.	n.a.	n.a.	n.a.	0.00	0.00
76.770	28.860	0.773	9508.3	5816.0	8.289	3.205	3.08		Clay	100.0			27.28	0.77	n.a.	n.a.	0.72	0.810	n.a.	n.a.	n.a.	n.a.	0.00	0.00
76.940	28.220	0.941	9529.5	5826.7	8.051	4.013	3.15		Clay	100.0			26.67	0.77	n.a.	n.a.	0.72	0.809	n.a.	n.a.	n.a.	n.a.	0.00	0.00
77.100	27.880	1.116	9549.5	5836.7	7.917	4.830	3.20		Clay	100.0			26.35	0.77	n.a.	n.a.	0.72	0.809	n.a.	n.a.	n.a.	n.a.	0.00	0.00
77.260	32.410	1.097	9569.5	5846.7	9.450	3.971	3.09		Clay	100.0			30.63	0.76	n.a.	n.a.	0.72	0.808	n.a.	n.a.	n.a.	n.a.	0.00	0.00
77.430	37.930	1.106	9590.8	5857.4	11.314	3.338	2.98		Clay	100.0			35.85	0.76	n.a.	n.a.	0.72	0.808	n.a.	n.a.	n.a.	n.a.	0.00	0.00
77.590	37.350	1.508	9610.8	5867.4	11.093	4.634	3.07		Clay	100.0			35.30	0.76	n.a.	n.a.	0.71	0.807	n.a.	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No.	2

PGA (A_{max})	1.00

Total Settlement:	0.24	(Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	$CRR_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
77.760	36.570	2.234	9632.0	5878.0	10.804	7.036	3.20		Clay	100.0			34.57	0.76	n.a.	n.a.	0.71	0.807	n.a.	n.a.	n.a.	n.a.	0.00	0.00
77.920	45.650	2.471	9652.0	5888.0	13.867	6.054	3.07		Clay	100.0			43.15	0.76	n.a.	n.a.	0.71	0.806	n.a.	n.a.	n.a.	n.a.	0.00	0.00
78.080	71.960	2.078	9672.0	5898.0	22.761	3.096	2.72		Clay	80.5			68.02	0.76	n.a.	n.a.	0.71	0.806	n.a.	n.a.	n.a.	n.a.	0.00	0.00
78.250	88.350	2.058	9693.3	5908.7	47.231	2.464	2.41		Sand	56.0			83.51	0.62	51.56	113.49	0.71	0.806	0.879	0.158	0.186	0.23	0.03	0.00
78.410	67.190	1.567	9713.3	5918.7	21.063	2.513	2.69		Clay	78.1			63.51	0.76	n.a.	n.a.	0.71	0.805	n.a.	n.a.	n.a.	n.a.	0.00	0.00
78.580	41.870	1.391	9734.5	5929.3	12.481	3.760	2.98		Clay	100.0			39.57	0.76	n.a.	n.a.	0.71	0.805	n.a.	n.a.	n.a.	n.a.	0.00	0.00
78.740	31.200	1.349	9754.5	5939.4	8.864	5.124	3.18		Clay	100.0			29.49	0.76	n.a.	n.a.	0.71	0.804	n.a.	n.a.	n.a.	n.a.	0.00	0.00
78.900	32.280	1.412	9774.5	5949.4	9.209	5.154	3.16		Clay	100.0			30.51	0.76	n.a.	n.a.	0.71	0.804	n.a.	n.a.	n.a.	n.a.	0.00	0.00
79.070	37.200	1.324	9795.8	5960.0	10.840	4.100	3.05		Clay	100.0			35.16	0.76	n.a.	n.a.	0.71	0.803	n.a.	n.a.	n.a.	n.a.	0.00	0.00
79.230	40.350	1.180	9815.8	5970.0	11.873	3.329	2.96		Clay	100.0			38.14	0.76	n.a.	n.a.	0.71	0.803	n.a.	n.a.	n.a.	n.a.	0.00	0.00
79.400	34.630	1.137	9837.0	5980.7	9.936	3.828	3.06		Clay	100.0			32.73	0.76	n.a.	n.a.	0.71	0.802	n.a.	n.a.	n.a.	n.a.	0.00	0.00
79.560	28.250	0.973	9857.0	5990.7	7.786	4.171	3.17		Clay	100.0			26.70	0.76	n.a.	n.a.	0.71	0.802	n.a.	n.a.	n.a.	n.a.	0.00	0.00
79.720	25.780	0.875	9877.0	6000.7	6.946	4.198	3.21		Clay	100.0			24.37	0.76	n.a.	n.a.	0.71	0.802	n.a.	n.a.	n.a.	n.a.	0.00	0.00
79.890	24.490	0.894	9898.3	6011.4	6.501	4.572	3.25		Clay	100.0			23.15	0.76	n.a.	n.a.	0.71	0.801	n.a.	n.a.	n.a.	n.a.	0.00	0.00
80.050	24.050	0.910	9918.3	6021.4	6.341	4.766	3.27		Clay	100.0			22.73	0.76	n.a.	n.a.	0.71	0.801	n.a.	n.a.	n.a.	n.a.	0.00	0.00
80.220	27.030	1.141	9939.5	6032.0	7.314	5.172	3.24		Clay	100.0			25.55	0.76	n.a.	n.a.	0.71	0.800	n.a.	n.a.	n.a.	n.a.	0.00	0.00
80.380	28.580	1.220	9959.5	6042.0	7.812	5.167	3.22		Clay	100.0			27.01	0.76	n.a.	n.a.	0.70	0.800	n.a.	n.a.	n.a.	n.a.	0.00	0.00
80.540	34.090	1.331	9979.5	6052.0	9.617	4.575	3.12		Clay	100.0			32.22	0.76	n.a.	n.a.	0.70	0.799	n.a.	n.a.	n.a.	n.a.	0.00	0.00
80.710	38.530	1.366	10000.8	6062.7	11.061	4.073	3.04		Clay	100.0			36.42	0.76	n.a.	n.a.	0.70	0.799	n.a.	n.a.	n.a.	n.a.	0.00	0.00
80.870	36.870	1.684	10020.8	6072.7	10.493	5.285	3.13		Clay	100.0			34.85	0.76	n.a.	n.a.	0.70	0.799	n.a.	n.a.	n.a.	n.a.	0.00	0.00
81.040	41.320	1.534	10042.0	6083.3	11.934	4.227	3.02		Clay	100.0			39.05	0.76	n.a.	n.a.	0.70	0.798	n.a.	n.a.	n.a.	n.a.	0.00	0.00
81.200	37.730	1.511	10062.0	6093.4	10.733	4.620	3.08		Clay	100.0			35.66	0.76	n.a.	n.a.	0.70	0.798	n.a.	n.a.	n.a.	n.a.	0.00	0.00
81.360	31.170	1.399	10082.0	6103.4	8.562	5.354	3.20		Clay	100.0			29.46	0.76	n.a.	n.a.	0.70	0.797	n.a.	n.a.	n.a.	n.a.	0.00	0.00
81.530	33.550	1.182	10103.3	6114.0	9.322	4.147	3.10		Clay	100.0			31.71	0.76	n.a.	n.a.	0.70	0.797	n.a.	n.a.	n.a.	n.a.	0.00	0.00
81.690	36.020	1.095	10123.3	6124.0	10.110	3.536	3.03		Clay	100.0			34.05	0.76	n.a.	n.a.	0.70	0.796	n.a.	n.a.	n.a.	n.a.	0.00	0.00
81.860	32.860	0.953	10144.5	6134.7	9.059	3.428	3.07		Clay	100.0			31.06	0.76	n.a.	n.a.	0.70	0.796	n.a.	n.a.	n.a.	n.a.	0.00	0.00
82.020	25.460	0.796	10164.5	6144.7	6.633	3.906	3.21		Clay	100.0			24.06	0.75	n.a.	n.a.	0.70	0.796	n.a.	n.a.	n.a.	n.a.	0.00	0.00
82.190	22.420	0.689	10185.8	6155.3	5.630	3.977	3.27		Clay	100.0			21.19	0.75	n.a.	n.a.	0.70	0.795	n.a.	n.a.	n.a.	n.a.	0.00	0.00
82.350	20.930	0.632	10205.8	6165.4	5.134	3.992	3.31		Clay	100.0			19.78	0.75	n.a.	n.a.	0.70	0.795	n.a.	n.a.	n.a.	n.a.	0.00	0.00
82.510	18.860	0.593	10225.8	6175.4	4.452	4.310	3.38		Clay	100.0			17.83	0.75	n.a.	n.a.	0.70	0.794	n.a.	n.a.	n.a.	n.a.	0.00	0.00
82.680	18.550	0.564	10247.0	6186.0	4.341	4.203	3.38		Clay	100.0			17.53	0.75	n.a.	n.a.	0.70	0.794	n.a.	n.a.	n.a.	n.a.	0.00	0.00
82.840	20.070	0.568	10267.0	6196.0	4.821	3.805	3.32		Clay	100.0			18.97	0.75	n.a.	n.a.	0.70	0.793	n.a.	n.a.	n.a.	n.a.	0.00	0.00
83.010	20.950	0.566	10288.3	6206.7	5.093	3.583	3.28		Clay	100.0			19.80	0.75	n.a.	n.a.	0.70	0.793	n.a.	n.a.	n.a.	n.a.	0.00	0.00
83.170	20.880	0.568	10308.3	6216.7	5.059	3.613	3.29		Clay	100.0			19.74	0.75	n.a.	n.a.	0.70	0.793	n.a.	n.a.	n.a.	n.a.	0.00	0.00
83.330	20.670	0.556	10328.3	6226.7	4.980	3.583	3.29		Clay	100.0			19.54	0.75	n.a.	n.a.	0.69	0.792	n.a.	n.a.	n.a.	n.a.	0.00	0.00
83.500	20.880	0.567	10349.5	6237.3	5.036	3.611	3.29		Clay	100.0			19.74	0.75	n.a.	n.a.	0.69	0.792	n.a.	n.a.	n.a.	n.a.	0.00	0.00
83.660	22.100	0.625	10369.5	6247.4	5.415	3.695	3.27		Clay	100.0			20.89	0.75	n.a.	n.a.	0.69	0.791	n.a.	n.a.	n.a.	n.a.	0.00	0.00
83.830	22.410	0.654	10390.8	6258.0	5.502	3.801	3.27		Clay	100.0			21.18	0.75	n.a.	n.a.	0.69	0.791	n.a.	n.a.	n.a.	n.a.	0.00	0.00
83.990	22.420	0.671	10410.8	6268.0	5.493	3.899	3.28		Clay	100.0			21.19	0.75	n.a.	n.a.	0.69	0.791	n.a.	n.a.	n.a.	n.a.	0.00	0.00
84.150	22.580	0.710	10430.8	6278.0	5.532	4.089	3.29		Clay	100.0			21.34	0.75	n.a.	n.a.	0.69	0.790	n.a.	n.a.	n.a.	n.a.	0.00	0.00
84.320	23.510	0.772	10452.0	6288.7	5.815	4.222	3.27		Clay	100.0			22.22	0.75	n.a.	n.a.	0.69	0.790	n.a.	n.a.	n.a.	n.a.	0.00	0.00
84.480	24.450	0.811	10472.0	6298.7	6.101	4.223	3.26		Clay	100.0			23.11	0.75	n.a.	n.a.	0.69	0.789	n.a.	n.a.	n.a.	n.a.	0.00	0.00
84.650	25.850	0.861	10493.3	6309.3	6.531	4.178	3.23		Clay	100.0			24.43	0.75	n.a.	n.a.	0.69	0.789	n.a.	n.a.	n.a.	n.a.	0.00	0.00
84.810	25.900	0.839	10513.3	6319.3	6.533	4.065	3.22		Clay	100.0			24.48	0.75	n.a.	n.a.	0.69	0.788	n.a.	n.a.	n.a.	n.a.	0.00	0.00
84.970	26.060	0.803	10533.3	6329.4	6.570	3.862	3.21		Clay	100.0			24.63	0.75	n.a.	n.a.	0.69	0.788	n.a.	n.a.	n.a.	n.a.	0.00	0.00
85.140	26.880	0.746	10554.5	6340.0	6.815	3.453	3.17		Clay	100.0			25.41	0.75	n.a.	n.a.	0.69	0.788	n.a.	n.a.	n.a.	n.a.	0.00	0.00
85.300	26.200	0.734	10574.5	6350.0	6.587	3.512	3.19		Clay	100.0			24.76	0.75	n.a.	n.a.	0.69	0.787	n.a.	n.a.	n.a.	n.a.	0.00	0.00
85.470	25.550	0.808	10595.8	6360.7	6.368	3.987	3.23		Clay	100.0			24.15	0.75	n.a.	n.a.	0.69	0.787	n.a.	n.a.	n.a.	n.a.	0.00	0.00
85.630	26.970	0.960	10615.8	6370.7	6.801	4.434	3.23		Clay	100.0			25.49	0.75	n.a.	n.a.	0.69	0.786	n.a.	n.a.	n.a.	n.a.	0.00	0.00
85.790	32.380	1.222	10635.8	6380.7	8.483	4.514	3.16		Clay	100.0			30.60	0.75	n.a.	n.a.	0.69	0.786	n.a.	n.a.	n.a.	n.a.	0.00	0.00
85.960	34.870	1.004	10657.0	6391.3	9.244	3.399	3.06		Clay	100.0			32.96	0.75	n.a.	n.a.	0.69	0.786	n.a.	n.a.	n.a.	n.a.	0.00	0.00
86.120	41.420	1.156	10677.0	6401.4	11.273	3.203	2.97		Clay	100.0			39.15	0.75	n.a.	n.a.	0.69	0.785	n.a.	n.a.	n.a.	n.a.	0.00	0.00
86.290	37.530	1.421	10698.3	6412.0	10.038	4.415	3.09		Clay	100.0			35.47	0.75	n.a.	n.a.	0.69	0.785	n.a.	n.a.	n.a.	n.a.	0.00	0.00
86.450	46.360	1.496	10718.3	6422.0	12.769	3.649	2.96		Clay	99.8			43.82	0.75	n.a.	n.a.	0.69	0.784	n.a.	n.a.	n.a.	n.a.	0.00	0.00
86.610	69.440	1.256	10738.3	6432.0	19.922	1.960	2.65		Clay	74.6			65.63	0.75	n.a.	n.a.	0.68	0.784	n.a.	n.a.	n.a.	n.a.	0.00	0.00
86.780	47.150	1.769	10759.5	6442.7	12.967	4.236	2.99		Clay	100.0			44.57	0.75	n.a.	n.a.	0.68	0.784	n.a.	n.a.	n.a.	n.a.	0.00	0.00
86.940	35.230	2.086	10779.5	6452.7	9.249	6.989	3.25		Clay	100.0			33.30	0.75	n.a.	n.a.	0.68	0.783	n.a.	n.a.	n.a.	n.a.	0.00	0.00
87.110	40.250	1.972	10800.8	6463.3	10.784	5.658	3.14		Clay	100.0			38.04	0.74	n.a.	n.a.	0.68	0.783	n.a.	n.a.	n.a.	n.a.	0.00	0.00
87.270	118.370	2.377	10820.8	6473.3	61.042	2.104	2.28		Sand	45.7			111.88	0.61	68.67	130.74	0.68	0.782	0.848	0.200	0.249	0.32	0.02	0.00
87.430	167.620	2.461	10840.8	6483.4	87.583	1.517	2.07		Sand	28.8			158.43	0.64	102.03	156.32	0.68	0.782	0.811	0.337	0.476	0.61	0.02	0.00
87.600	196.500	2.345	10862.0	6494.0	103.088	1.227	1.96		Sand	19.7			185.73	0.65	120.09	158.94	0.68	0.782	0.806	0.361	0.517	0.66	0.02	0.00
87.760	212.640	2.267	10882.0	6504.0	111.704	1.094	1.90		Sand	14.9			200.98	0.64	128.73	154.00	0.68	0.781	0.814	0.317	0.443	0.57	0.02	0.00
87.930	219.310	2.853	10903.3	6514.7	115.200	1.334	1.95		Sand	18.8			207.29	0.67	137.97	176.69	0.68	0.781	0.770	0.639	1.001	1.28	0.00	0.00
88.090	225.360	3.718	10923.3	6524.7	118.363	1.691	2.01		Sand	24.0			213.01	0.69	147.12	200.67	0.68	0.780	0.702	1.962	3.029	3.88	0.00	0.00
88.250	233.540	4.427	10943.3	6534.7	122.666	1.941	2.05		Sand	26.6			220.74	0.71	155.99	216.74	0.68	0.780	0.662	5.579	8.122	10.41	0.00	0.00
88.420	250.340	3.868	10964.5	6545.3	131.589	1.579	1.96		Sand	19.7			236.62	0.70	165.68	210.64	0.68	0.780	0.662	3.636	5.298	6.80	0.00	0.00
88.580	272.400	3.366	10984.5	6555.3	143.329	1.261	1.86		Sand	12.0			257.47	0.68	175.48	192.95	0.68	0.779	0.726	1.298	2.073	2.66	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No.	2

PGA (A_{max})	1.00

Total Settlement:	0.24	(Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	$CRR_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
88.750	267.470	3.263	11005.8	6566.0	140.562	1.246	1.87		Sand	12.2			252.81	0.68	171.19	189.12	0.68	0.779	0.736	1.079	1.748	2.24	0.00	0.00
88.910	216.220	4.188	11025.8	6576.0	112.972	1.987	2.08		Sand	29.1			204.37	0.69	141.52	204.13	0.68	0.779	0.687	2.404	3.634	4.67	0.00	0.00
89.070	152.520	5.134	11045.8	6586.0	78.753	3.492	2.36		Sand	52.1			144.16	0.65	93.80	165.65	0.68	0.778	0.791	0.438	0.647	0.83	0.01	0.00
89.240	143.190	6.364	11067.0	6596.7	41.735	4.623	2.64		Clay	74.3			135.34	0.74	n.a.	n.a.	0.68	0.778	n.a.	n.a.	n.a.	n.a.	0.00	0.00
89.400	150.460	4.977	11087.0	6606.7	77.517	3.435	2.36		Sand	52.0			142.21	0.65	92.07	163.42	0.68	0.777	0.795	0.409	0.598	0.77	0.01	0.00
89.570	102.330	3.843	11108.3	6617.3	29.249	3.971	2.71		Clay	79.5			96.72	0.74	n.a.	n.a.	0.68	0.777	n.a.	n.a.	n.a.	n.a.	0.00	0.00
89.730	69.550	3.195	11128.3	6627.3	19.310	4.993	2.91		Clay	95.6			65.74	0.74	n.a.	n.a.	0.68	0.777	n.a.	n.a.	n.a.	n.a.	0.00	0.00
89.900	131.450	2.782	11149.5	6638.0	67.173	2.210	2.27		Sand	44.5			124.24	0.62	76.91	140.36	0.67	0.776	0.832	0.236	0.307	0.40	0.02	0.00
90.060	249.470	2.053	11169.5	6648.0	130.051	0.842	1.77		Sand	5.0			235.79	0.63	148.13	148.31	0.67	0.776	0.820	0.278	0.376	0.48	0.02	0.00
90.220	285.420	2.047	11189.5	6658.0	149.103	0.732	1.69		Sand	0.0			269.77	0.66	178.78	178.78	0.67	0.775	0.760	0.692	1.089	1.40	0.00	0.00
90.390	286.460	2.497	11210.8	6668.7	149.532	0.889	1.74		Sand	2.6			270.76	0.66	179.56	179.56	0.67	0.775	0.758	0.713	1.126	1.45	0.00	0.00
90.550	256.730	2.838	11230.8	6678.7	133.598	1.130	1.85		Sand	11.1			242.66	0.65	158.81	172.05	0.67	0.775	0.775	0.540	0.821	1.06	0.01	0.00
90.720	185.590	2.554	11252.0	6689.3	95.668	1.419	2.02		Sand	25.0			175.42	0.64	112.90	162.78	0.67	0.774	0.794	0.402	0.583	0.75	0.01	0.00
90.880	98.970	2.134	11272.0	6699.3	49.579	2.286	2.38		Sand	53.0			93.54	0.59	54.84	116.60	0.67	0.774	0.860	0.164	0.192	0.25	0.03	0.00
91.040	55.120	1.620	11292.0	6709.3	14.748	3.275	2.88		Clay	93.6			52.10	0.74	n.a.	n.a.	0.67	0.774	n.a.	n.a.	n.a.	n.a.	0.00	0.00
91.210	42.860	0.919	11313.3	6720.0	11.072	2.470	2.91		Clay	96.0			40.51	0.74	n.a.	n.a.	0.67	0.773	n.a.	n.a.	n.a.	n.a.	0.00	0.00
91.370	47.860	0.805	11333.3	6730.0	12.539	1.907	2.81		Clay	87.5			45.24	0.74	n.a.	n.a.	0.67	0.773	n.a.	n.a.	n.a.	n.a.	0.00	0.00
91.540	38.620	0.653	11354.5	6740.6	9.774	1.981	2.91		Clay	95.6			36.50	0.74	n.a.	n.a.	0.67	0.772	n.a.	n.a.	n.a.	n.a.	0.00	0.00
91.700	33.650	0.601	11374.5	6750.7	8.284	2.148	2.99		Clay	100.0			31.81	0.74	n.a.	n.a.	0.67	0.772	n.a.	n.a.	n.a.	n.a.	0.00	0.00
91.860	30.820	0.686	11394.5	6760.7	7.432	2.732	3.08		Clay	100.0			29.13	0.74	n.a.	n.a.	0.67	0.772	n.a.	n.a.	n.a.	n.a.	0.00	0.00
92.030	30.230	1.245	11415.8	6771.3	7.243	5.075	3.24		Clay	100.0			28.57	0.74	n.a.	n.a.	0.67	0.771	n.a.	n.a.	n.a.	n.a.	0.00	0.00
92.190	28.930	1.855	11435.8	6781.3	6.846	7.993	3.38		Clay	100.0			27.34	0.74	n.a.	n.a.	0.67	0.771	n.a.	n.a.	n.a.	n.a.	0.00	0.00
92.360	49.750	3.099	11457.0	6792.0	12.963	7.040	3.14		Clay	100.0			47.02	0.74	n.a.	n.a.	0.67	0.771	n.a.	n.a.	n.a.	n.a.	0.00	0.00
92.520	126.330	4.132	11477.0	6802.0	35.458	3.427	2.60		Clay	71.1			119.40	0.73	n.a.	n.a.	0.67	0.770	n.a.	n.a.	n.a.	n.a.	0.00	0.00
92.680	182.530	4.574	11497.0	6812.0	93.126	2.587	2.22		Sand	40.4			172.52	0.66	114.46	184.36	0.67	0.770	0.741	0.871	1.397	1.81	0.00	0.00
92.850	193.730	5.333	11518.3	6822.7	98.943	2.837	2.23		Sand	41.4			183.11	0.68	123.90	196.90	0.67	0.770	0.703	1.594	2.465	3.20	0.00	0.00
93.010	164.740	4.768	11538.3	6832.7	83.617	2.999	2.30		Sand	46.7			155.71	0.65	101.05	172.02	0.67	0.769	0.771	0.539	0.816	1.06	0.01	0.00
93.180	108.020	4.791	11559.5	6843.3	29.880	4.686	2.75		Clay	82.9			102.10	0.73	n.a.	n.a.	0.67	0.769	n.a.	n.a.	n.a.	n.a.	0.00	0.00
93.340	90.640	3.630	11579.5	6853.3	24.762	4.278	2.78		Clay	85.5			85.67	0.73	n.a.	n.a.	0.67	0.769	n.a.	n.a.	n.a.	n.a.	0.00	0.00
93.500	202.100	3.027	11599.5	6863.3	103.021	1.542	2.03		Sand	25.1			191.02	0.65	124.84	177.01	0.66	0.768	0.758	0.646	1.000	1.30	0.00	0.00
93.670	329.690	2.577	11620.8	6874.0	169.845	0.796	1.67		Sand	0.0			311.62	0.70	216.84	216.84	0.66	0.768	0.647	5.621	7.995	10.41	0.00	0.00
93.830	358.290	2.283	11640.8	6884.0	184.703	0.648	1.59		Sand	0.0			338.65	0.72	245.17	245.17	0.66	0.768	0.646	74.855	106.401	138.63	0.00	0.00
94.000	417.140	2.389	11662.0	6894.6	215.370	0.581	1.50		Sand	0.0			394.27	0.73	288.71	288.71	0.66	0.767	0.646	48538.457	68943.875	89868.66	0.00	0.00
94.160	423.620	2.618	11682.0	6904.7	218.599	0.627	1.52		Sand	0.0			400.40	0.73	293.08	293.08	0.66	0.767	0.645	##########	########	212089.50	0.00	0.00
94.320	421.690	2.650	11702.0	6914.7	217.426	0.637	1.53		Sand	0.0			398.57	0.73	291.63	291.63	0.66	0.766	0.645	85823.508	########	158825.91	0.00	0.00
94.490	368.430	3.427	11723.3	6925.3	189.427	0.945	1.69		Sand	0.0			348.23	0.73	254.69	254.69	0.66	0.766	0.644	231.141	327.635	427.64	0.00	0.00
94.650	333.190	3.629	11743.3	6935.3	170.887	1.109	1.77		Sand	4.5			314.92	0.70	219.41	219.51	0.66	0.766	0.644	6.870	9.731	12.71	0.00	0.00
94.820	289.460	4.477	11764.5	6946.0	147.937	1.579	1.92		Sand	16.9			273.59	0.71	194.25	232.91	0.66	0.765	0.643	21.429	30.333	39.63	0.00	0.00
94.980	266.860	4.871	11784.5	6956.0	136.044	1.867	2.00		Sand	23.2			252.23	0.71	180.07	237.11	0.66	0.765	0.643	32.112	45.424	59.37	0.00	0.00
95.140	248.560	4.945	11804.5	6966.0	126.408	2.038	2.05		Sand	27.2			234.93	0.71	165.88	229.57	0.66	0.765	0.643	15.798	22.332	29.20	0.00	0.00
95.310	259.300	5.681	11825.8	6976.6	131.897	2.242	2.07		Sand	28.7			245.09	0.72	176.90	245.66	0.66	0.764	0.642	79.060	111.680	146.09	0.00	0.00
95.470	263.220	5.103	11845.8	6986.7	133.836	1.983	2.03		Sand	25.1			248.79	0.72	177.99	239.52	0.66	0.764	0.642	40.965	57.828	75.68	0.00	0.00
95.640	241.170	4.287	11867.0	6997.3	122.268	1.822	2.03		Sand	25.1			227.95	0.69	157.35	215.13	0.66	0.764	0.641	4.961	6.998	9.16	0.00	0.00
95.800	162.290	3.116	11887.0	7007.3	81.205	1.993	2.18		Sand	37.2			153.39	0.63	96.33	159.15	0.66	0.763	0.792	0.363	0.512	0.67	0.02	0.00
95.960	74.260	1.931	11907.0	7017.3	19.468	2.827	2.75		Clay	82.8			70.19	0.73	n.a.	n.a.	0.66	0.763	n.a.	n.a.	n.a.	n.a.	0.00	0.00
96.130	47.350	1.376	11928.3	7028.0	11.777	3.324	2.96		Clay	100.0			44.75	0.73	n.a.	n.a.	0.66	0.763	n.a.	n.a.	n.a.	n.a.	0.00	0.00
96.290	32.720	1.041	11948.3	7038.0	7.600	3.893	3.16		Clay	100.0			30.93	0.73	n.a.	n.a.	0.66	0.763	n.a.	n.a.	n.a.	n.a.	0.00	0.00
96.460	30.290	1.006	11969.5	7048.6	6.896	4.139	3.21		Clay	100.0			28.63	0.73	n.a.	n.a.	0.66	0.762	n.a.	n.a.	n.a.	n.a.	0.00	0.00
96.620	29.880	0.946	11989.5	7058.7	6.768	3.959	3.20		Clay	100.0			28.24	0.73	n.a.	n.a.	0.66	0.762	n.a.	n.a.	n.a.	n.a.	0.00	0.00
96.780	22.060	0.924	12009.5	7068.7	4.543	5.755	3.44		Clay	100.0			20.85	0.73	n.a.	n.a.	0.66	0.762	n.a.	n.a.	n.a.	n.a.	0.00	0.00
96.950	26.490	0.856	12030.8	7079.3	5.784	4.183	3.27		Clay	100.0			25.04	0.73	n.a.	n.a.	0.66	0.761	n.a.	n.a.	n.a.	n.a.	0.00	0.00
97.110	28.290	0.860	12050.8	7089.3	6.281	3.861	3.23		Clay	100.0			26.74	0.73	n.a.	n.a.	0.66	0.761	n.a.	n.a.	n.a.	n.a.	0.00	0.00
97.280	29.850	0.847	12072.0	7100.0	6.708	3.557	3.18		Clay	100.0			28.21	0.73	n.a.	n.a.	0.66	0.761	n.a.	n.a.	n.a.	n.a.	0.00	0.00
97.440	31.570	0.866	12092.0	7110.0	7.180	3.394	3.15		Clay	100.0			29.84	0.73	n.a.	n.a.	0.66	0.760	n.a.	n.a.	n.a.	n.a.	0.00	0.00
97.600	31.930	0.859	12112.0	7120.0	7.268	3.319	3.14		Clay	100.0			30.18	0.73	n.a.	n.a.	0.65	0.760	n.a.	n.a.	n.a.	n.a.	0.00	0.00
97.770	32.510	0.859	12133.3	7130.6	7.417	3.250	3.12		Clay	100.0			30.73	0.73	n.a.	n.a.	0.65	0.760	n.a.	n.a.	n.a.	n.a.	0.00	0.00
97.930	33.890	0.918	12153.3	7140.7	7.790	3.299	3.11		Clay	100.0			32.03	0.73	n.a.	n.a.	0.65	0.759	n.a.	n.a.	n.a.	n.a.	0.00	0.00
98.100	34.320	0.913	12174.5	7151.3	7.896	3.232	3.10		Clay	100.0			32.44	0.73	n.a.	n.a.	0.65	0.759	n.a.	n.a.	n.a.	n.a.	0.00	0.00
98.260	36.460	0.984	12194.5	7161.3	8.480	3.241	3.07		Clay	100.0			34.46	0.72	n.a.	n.a.	0.65	0.759	n.a.	n.a.	n.a.	n.a.	0.00	0.00
98.430	37.030	1.156	12215.8	7172.0	8.623	3.739	3.10		Clay	100.0			35.00	0.72	n.a.	n.a.	0.65	0.758	n.a.	n.a.	n.a.	n.a.	0.00	0.00
98.590	39.490	1.288	12235.8	7182.0	9.293	3.860	3.09		Clay	100.0			37.33	0.72	n.a.	n.a.	0.65	0.758	n.a.	n.a.	n.a.	n.a.	0.00	0.00
98.750	40.220	1.461	12255.8	7192.0	9.481	4.286	3.11		Clay	100.0			38.02	0.72	n.a.	n.a.	0.65	0.758	n.a.	n.a.	n.a.	n.a.	0.00	0.00
98.920	40.840	1.510	12277.0	7202.6	9.636	4.352	3.10		Clay	100.0			38.60	0.72	n.a.	n.a.	0.65	0.758	n.a.	n.a.	n.a.	n.a.	0.00	0.00
99.080	41.040	1.636	12297.0	7212.6	9.675	4.687	3.12		Clay	100.0			38.79	0.72	n.a.	n.a.	0.65	0.757	n.a.	n.a.	n.a.	n.a.	0.00	0.00
99.250	41.000	1.773	12318.3	7223.3	9.647	5.088	3.14		Clay	100.0			38.75	0.72	n.a.	n.a.	0.65	0.757	n.a.	n.a.	n.a.	n.a.	0.00	0.00
99.410	42.500	1.865	12338.3	7233.3	10.045	5.132	3.13		Clay	100.0			40.17	0.72	n.a.	n.a.	0.65	0.757	n.a.	n.a.	n.a.	n.a.	0.00	0.00
99.570	41.880	1.847	12358.3	7243.3	9.858	5.174	3.14		Clay	100.0			39.58	0.72	n.a.	n.a.	0.65	0.756	n.a.	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No.	2

PGA (A_{max})	1.00

Total Settlement:	0.24	(Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	$CRR_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
99.740	41.940	1.833	12379.5	7254.0	9.857	5.126	3.14		Clay	100.0			39.64	0.72	n.a.	n.a.	0.65	0.756	n.a.	n.a.	n.a.	n.a.	0.00	0.00
99.900	43.730	1.832	12399.5	7264.0	10.333	4.881	3.11		Clay	100.0			41.33	0.72	n.a.	n.a.	0.65	0.756	n.a.	n.a.	n.a.	n.a.	0.00	0.00
100.070	44.380	1.819	12420.8	7274.6	10.494	4.766	3.10		Clay	100.0			41.95	0.72	n.a.	n.a.	0.65	0.756	n.a.	n.a.	n.a.	n.a.	0.00	0.00
100.230	46.820	1.727	12440.8	7284.6	11.147	4.254	3.05		Clay	100.0			44.25	0.72	n.a.	n.a.	0.65	0.755	n.a.	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No.	3

PGA (A_{max})	1.00

Total Settlement:	0.22	(Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	$CRR_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
0.660	110.650	0.951	79.2	79.2	540.388	0.860	1.37		Unsaturated	0.0			104.58	1.70	177.79	177.79	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.820	105.040	0.728	98.4	98.4	460.178	0.693	1.33		Unsaturated	0.0			99.28	1.70	168.78	168.78	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.980	64.760	0.995	117.6	117.6	259.406	1.538	1.76		Unsaturated	3.7			61.21	1.70	104.06	104.07	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.150	46.870	0.866	138.0	138.0	173.216	1.851	1.93		Unsaturated	17.5			44.30	1.70	75.31	102.93	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.310	29.280	0.899	157.2	157.2	101.263	3.080	2.25		Unsaturated	43.0			27.67	1.70	47.05	102.15	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.480	14.830	0.689	177.6	177.6	78.940	4.671	2.46		Unsaturated	59.7			14.02	1.70	23.83	79.14	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.640	10.780	0.588	196.8	196.8	53.235	5.502	2.62		Unsaturated	72.9			10.19	1.70	17.32	73.48	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.800	10.010	0.586	216.0	216.0	46.236	5.913	2.69		Unsaturated	78.0			9.46	1.70	16.08	72.65	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.970	9.300	0.605	236.4	236.4	40.249	6.593	2.76		Unsaturated	84.1			8.79	1.70	14.94	71.95	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.130	8.970	0.548	255.6	255.6	36.698	6.201	2.77		Unsaturated	84.7			8.48	1.70	14.41	71.33	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.300	9.300	0.483	276.0	276.0	36.035	5.273	2.73		Unsaturated	81.1			8.79	1.70	14.94	71.58	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.460	7.330	0.437	295.2	295.2	48.661	6.086	2.68		Unsaturated	77.6			6.93	1.70	11.78	67.00	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.620	7.020	0.441	314.4	314.4	43.656	6.426	2.73		Unsaturated	81.5			6.64	1.70	11.28	66.87	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.790	7.290	0.452	334.8	334.8	42.548	6.343	2.73		Unsaturated	81.8			6.89	1.70	11.71	67.47	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.950	7.590	0.483	354.0	354.0	41.881	6.520	2.75		Unsaturated	82.9			7.17	1.70	12.20	68.22	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.120	8.670	0.516	374.4	374.4	45.314	6.082	2.70		Unsaturated	79.2			8.19	1.70	13.93	70.02	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.280	8.840	0.551	393.6	393.6	43.919	6.371	2.73		Unsaturated	81.2			8.36	1.70	14.20	70.63	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.440	8.790	0.552	412.8	412.8	41.587	6.432	2.75		Unsaturated	82.7			8.31	1.70	14.12	70.71	1.00	0.649	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.610	8.240	0.519	433.2	433.2	37.042	6.474	2.78		Unsaturated	85.6			7.79	1.70	13.24	69.90	1.00	0.649	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.770	7.020	0.488	452.4	452.4	30.034	7.177	2.88		Unsaturated	93.2			6.64	1.70	11.28	68.13	1.00	0.649	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.940	6.460	0.407	472.8	472.8	26.327	6.538	2.89		Unsaturated	94.1			6.11	1.70	10.38	67.03	1.00	0.649	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.100	6.060	0.372	492.0	492.0	23.634	6.390	2.92		Unsaturated	96.2			5.73	1.70	9.74	66.38	1.00	0.648	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.270	6.190	0.355	512.4	512.4	23.161	5.979	2.90		Unsaturated	95.1			5.85	1.70	9.95	66.56	1.00	0.648	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.430	7.110	0.417	531.6	531.6	25.749	6.099	2.87		Unsaturated	92.9			6.72	1.70	11.42	68.29	1.00	0.648	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.590	8.180	0.586	550.8	550.8	28.702	7.417	2.90		Unsaturated	95.1			7.73	1.70	13.14	70.74	1.00	0.648	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.760	9.400	0.679	571.2	571.2	31.913	7.449	2.87		Unsaturated	92.7			8.88	1.70	15.10	73.07	1.00	0.647	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.920	11.710	0.705	590.4	590.4	38.668	6.175	2.75		Unsaturated	83.4			11.07	1.70	18.82	76.90	1.00	0.647	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.090	11.660	0.675	610.8	610.8	37.179	5.941	2.75		Unsaturated	83.3			11.02	1.70	18.74	76.79	1.00	0.647	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.250	12.300	0.654	630.0	630.0	38.048	5.458	2.72		Unsaturated	80.6			11.63	1.70	19.76	77.78	0.99	0.647	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.410	12.970	0.649	649.2	649.2	38.957	5.134	2.69		Unsaturated	78.5			12.26	1.70	20.84	78.89	0.99	0.646	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.580	12.880	0.629	669.6	669.6	37.471	5.010	2.70		Unsaturated	78.9			12.17	1.70	20.70	78.75	0.99	0.646	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.740	12.690	0.622	688.8	688.8	35.847	5.039	2.71		Unsaturated	80.1			11.99	1.70	20.39	78.53	0.99	0.646	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.910	12.890	0.640	709.2	709.2	35.351	5.106	2.72		Unsaturated	80.8			12.18	1.70	20.71	79.03	0.99	0.646	1.099	n.a.	n.a.	n.a.	0.00	0.00
6.070	12.990	0.700	728.4	728.4	34.667	5.544	2.75		Unsaturated	83.3			12.28	1.70	20.87	79.57	0.99	0.645	1.097	n.a.	n.a.	n.a.	0.00	0.00
6.230	13.920	0.803	747.6	747.6	36.239	5.931	2.76		Unsaturated	83.9			13.16	1.70	22.37	81.59	0.99	0.645	1.096	n.a.	n.a.	n.a.	0.00	0.00
6.400	14.840	0.896	768.0	768.0	37.646	6.197	2.76		Unsaturated	84.1			14.03	1.70	23.84	83.54	0.99	0.645	1.095	n.a.	n.a.	n.a.	0.00	0.00
6.560	15.890	0.983	787.2	787.2	39.371	6.342	2.76		Unsaturated	83.6			15.02	1.69	25.42	85.53	0.99	0.645	1.094	n.a.	n.a.	n.a.	0.00	0.00
6.730	16.630	1.028	807.6	807.6	40.184	6.336	2.75		Unsaturated	83.1			15.72	1.67	26.18	86.46	0.99	0.644	1.092	n.a.	n.a.	n.a.	0.00	0.00
6.890	17.350	1.051	826.8	826.8	40.969	6.204	2.74		Unsaturated	82.1			16.40	1.64	26.93	87.30	0.99	0.644	1.090	n.a.	n.a.	n.a.	0.00	0.00
7.050	17.070	1.001	846.0	846.0	39.355	6.013	2.74		Unsaturated	82.3			16.13	1.63	26.23	86.40	0.99	0.644	1.088	n.a.	n.a.	n.a.	0.00	0.00
7.220	16.490	0.934	866.4	866.4	37.066	5.819	2.75		Unsaturated	82.9			15.59	1.61	25.09	85.01	0.99	0.644	1.084	n.a.	n.a.	n.a.	0.00	0.00
7.380	16.010	0.909	885.6	885.6	35.156	5.841	2.77		Unsaturated	84.2			15.13	1.60	24.14	83.94	0.99	0.643	1.082	n.a.	n.a.	n.a.	0.00	0.00
7.550	16.210	0.959	906.0	906.0	34.784	6.084	2.78		Unsaturated	85.5			15.32	1.58	24.13	84.09	0.99	0.643	1.080	n.a.	n.a.	n.a.	0.00	0.00
7.710	18.400	1.179	925.2	925.2	38.775	6.574	2.77		Unsaturated	84.9			17.39	1.55	26.89	87.61	0.99	0.643	1.080	n.a.	n.a.	n.a.	0.00	0.00
7.870	21.440	1.378	944.4	944.4	44.404	6.571	2.73		Unsaturated	81.7			20.26	1.52	30.73	92.18	0.99	0.642	1.081	n.a.	n.a.	n.a.	0.00	0.00
8.040	23.790	1.528	964.8	964.8	48.316	6.555	2.71		Unsaturated	79.7			22.49	1.49	33.52	95.52	0.99	0.642	1.081	n.a.	n.a.	n.a.	0.00	0.00
8.200	24.400	1.581	984.0	984.0	48.593	6.614	2.71		Unsaturated	79.8			23.06	1.47	34.00	96.16	0.99	0.642	1.079	n.a.	n.a.	n.a.	0.00	0.00
8.370	23.820	1.519	1004.4	1004.4	46.431	6.514	2.72		Unsaturated	80.4			22.51	1.46	32.92	94.86	0.99	0.642	1.076	n.a.	n.a.	n.a.	0.00	0.00
8.530	22.650	1.383	1023.6	1023.6	43.256	6.245	2.73		Unsaturated	81.0			21.41	1.45	31.12	92.60	0.99	0.641	1.073	n.a.	n.a.	n.a.	0.00	0.00
8.690	21.370	1.201	1042.8	1042.8	39.986	5.760	2.72		Unsaturated	80.8			20.20	1.45	29.20	90.08	0.99	0.641	1.070	n.a.	n.a.	n.a.	0.00	0.00
8.860	20.450	1.082	1063.2	1063.2	37.469	5.430	2.72		Unsaturated	80.9			19.33	1.44	27.75	88.20	0.99	0.641	1.067	n.a.	n.a.	n.a.	0.00	0.00
9.020	19.030	1.083	1082.4	1082.4	34.163	5.859	2.78		Unsaturated	85.0			17.99	1.43	25.67	86.03	0.99	0.640	1.064	n.a.	n.a.	n.a.	0.00	0.00
9.190	18.630	1.073	1102.8	1102.8	32.787	5.932	2.79		Unsaturated	86.3			17.61	1.42	24.92	85.21	0.98	0.640	1.062	n.a.	n.a.	n.a.	0.00	0.00
9.350	18.440	1.068	1122.0	1122.0	31.870	5.976	2.80		Unsaturated	87.2			17.43	1.40	24.46	84.71	0.98	0.640	1.060	n.a.	n.a.	n.a.	0.00	0.00
9.510	18.690	1.007	1141.2	1141.2	31.755	5.559	2.78		Unsaturated	85.5			17.67	1.39	24.57	84.65	0.98	0.640	1.058	n.a.	n.a.	n.a.	0.00	0.00
9.680	19.820	1.117	1161.6	1161.6	33.125	5.807	2.78		Unsaturated	85.5			18.73	1.37	25.75	86.20	0.98	0.639	1.057	n.a.	n.a.	n.a.	0.00	0.00
9.840	20.660	1.239	1180.8	1180.8	33.993	6.173	2.79		Unsaturated	86.4			19.53	1.36	26.56	87.37	0.98	0.639	1.056	n.a.	n.a.	n.a.	0.00	0.00
10.010	22.050	1.389	1201.2	1201.2	35.713	6.475	2.79		Unsaturated	86.4			20.84	1.34	28.02	89.27	0.98	0.639	1.055	n.a.	n.a.	n.a.	0.00	0.00
10.170	24.020	1.469	1220.4	1220.4	38.364	6.274	2.76		Unsaturated	83.9			22.70	1.33	30.18	91.76	0.98	0.638	1.055	n.a.	n.a.	n.a.	0.00	0.00
10.330	24.900	1.532	1239.6	1239.6	39.174	6.308	2.76		Unsaturated	83.6			23.53	1.32	30.99	92.78	0.98	0.638	1.054	n.a.	n.a.	n.a.	0.00	0.00
10.500	25.570	1.571	1260.0	1260.0	39.587	6.300	2.75		Unsaturated	83.3			24.17	1.30	31.53	93.45	0.98	0.638	1.052	n.a.	n.a.	n.a.	0.00	0.00
10.660	26.130	1.543	1279.2	1279.2	39.854	6.051	2.74		Unsaturated	82.1			24.70	1.29	31.96	93.84	0.98	0.638	1.051	n.a.	n.a.	n.a.	0.00	0.00
10.830	25.850	1.506	1299.6	1299.6	38.781	5.976	2.74		Unsaturated	82.5			24.43	1.28	31.39	93.14	0.98	0.637	1.049	n.a.	n.a.	n.a.	0.00	0.00
10.990	26.620	1.505	1318.8	1318.8	39.370	5.798	2.73		Unsaturated	81.3			25.16	1.27	32.05	93.86	0.98	0.637	1.048	n.a.	n.a.	n.a.	0.00	0.00
11.150	25.940	1.388	1338.0	1338.0	37.774	5.492	2.72		Unsaturated	81.0			24.52	1.27	31.05	92.50	0.98	0.637	1.046	n.a.	n.a.	n.a.	0.00	0.00
11.320	21.680	1.339	1358.4	1358.4	30.920	6.376	2.83		Unsaturated	89.5			20.49	1.26	25.90	86.86	0.98	0.636	1.043	n.a.	n.a.	n.a.	0.00	0.00
11.480	20.010	1.279	1377.6	1377.6	28.051	6.619	2.87		Unsaturated	92.8			18.91	1.26	23.79	84.45	0.98	0.636	1.040	n.a.	n.a.	n.a.	0.00	0.00
11.650	20.560	1.121	1398.0	1398.0	28.413	5.642	2.82		Unsaturated	88.6			19.43	1.25	24.25	84.60	0.98	0.636	1.039	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 3

PGA (A_{max}) 1.00

Total Settlement: 0.22 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	$CRR_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
11.810	20.970	1.102	1417.2	1417.2	28.594	5.439	2.81		Unsaturated	87.6			19.82	1.24	24.55	84.87	0.98	0.635	1.038	n.a.	n.a.	n.a.	0.00	0.00
11.980	20.410	1.075	1437.6	1437.6	27.395	5.461	2.82		Unsaturated	88.7			19.29	1.23	23.73	83.94	0.98	0.635	1.036	n.a.	n.a.	n.a.	0.00	0.00
12.140	21.110	0.950	1456.8	1456.8	27.981	4.659	2.77		Clay	84.4			19.95	1.10	n.a.	n.a.	0.98	0.639	n.a.	n.a.	n.a.	n.a.	0.00	0.00
12.300	18.390	0.814	1476.0	1476.0	23.919	4.613	2.81		Clay	88.2			17.38	1.10	n.a.	n.a.	0.98	0.643	n.a.	n.a.	n.a.	n.a.	0.00	0.00
12.470	15.490	0.827	1496.4	1496.4	19.703	5.611	2.93		Clay	97.7			14.64	1.10	n.a.	n.a.	0.98	0.647	n.a.	n.a.	n.a.	n.a.	0.00	0.00
12.630	15.680	0.814	1515.6	1515.6	19.691	5.455	2.93		Clay	97.1			14.82	1.09	n.a.	n.a.	0.98	0.651	n.a.	n.a.	n.a.	n.a.	0.00	0.00
12.800	18.610	0.867	1536.0	1536.0	23.232	4.861	2.84		Clay	90.2			17.59	1.09	n.a.	n.a.	0.97	0.655	n.a.	n.a.	n.a.	n.a.	0.00	0.00
12.960	18.600	0.810	1555.2	1555.2	22.920	4.547	2.82		Clay	89.0			17.58	1.08	n.a.	n.a.	0.97	0.658	n.a.	n.a.	n.a.	n.a.	0.00	0.00
13.120	27.810	0.820	1574.4	1574.4	31.414	3.033	2.61	plastic	Clay	71.4			26.29	1.08	n.a.	n.a.	0.97	0.662	n.a.	n.a.	n.a.	n.a.	0.00	0.00
13.290	43.900	0.844	1594.8	1594.8	46.927	1.959	2.35		Sand	51.0	44.03	1.78	78.37	1.12	87.55	157.21	0.97	0.666	1.048	0.344	0.634	0.95	0.01	0.02
13.450	46.580	0.952	1614.0	1614.0	49.537	2.081	2.35		Sand	50.9		1.78	78.37	1.11	87.15	156.68	0.97	0.670	1.046	0.340	0.621	0.93	0.01	0.02
13.620	45.150	1.042	1634.4	1634.4	47.678	2.351	2.40		Sand	54.7	44.03	1.78	78.37	1.11	86.69	157.76	0.97	0.673	1.044	0.349	0.643	0.96	0.01	0.02
13.780	40.650	1.065	1653.6	1653.6	42.579	2.675	2.47		Sand	60.6	44.03	1.78	78.37	1.10	86.25	159.35	0.97	0.677	1.043	0.365	0.678	1.00	0.01	0.02
13.940	29.900	0.933	1672.8	1672.8	32.383	3.208	2.61	plastic	Clay	71.9			28.26	1.06	n.a.	n.a.	0.97	0.680	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.110	18.680	0.663	1693.2	1693.2	21.065	3.719	2.80		Clay	86.6			17.66	1.06	n.a.	n.a.	0.97	0.684	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.270	13.620	0.533	1712.4	1712.4	14.907	4.177	2.94		Clay	98.5			12.87	1.06	n.a.	n.a.	0.97	0.687	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.440	10.580	0.406	1732.8	1732.8	11.211	4.178	3.04		Clay	100.0			10.00	1.05	n.a.	n.a.	0.97	0.690	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.600	9.070	0.252	1752.0	1752.0	9.354	3.075	3.03		Clay	100.0			8.57	1.05	n.a.	n.a.	0.97	0.694	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.760	8.690	0.290	1771.2	1771.2	8.813	3.721	3.10		Clay	100.0			8.21	1.05	n.a.	n.a.	0.97	0.697	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.930	8.710	0.329	1791.6	1791.6	8.723	4.212	3.13		Clay	100.0			8.23	1.04	n.a.	n.a.	0.97	0.700	n.a.	n.a.	n.a.	n.a.	0.00	0.00
15.090	9.820	0.360	1810.8	1810.8	9.846	4.043	3.08		Clay	100.0			9.28	1.04	n.a.	n.a.	0.97	0.703	n.a.	n.a.	n.a.	n.a.	0.00	0.00
15.260	9.740	0.358	1831.2	1831.2	9.638	4.051	3.09		Clay	100.0			9.21	1.04	n.a.	n.a.	0.97	0.706	n.a.	n.a.	n.a.	n.a.	0.00	0.00
15.420	10.050	0.364	1850.4	1850.4	9.863	3.991	3.07		Clay	100.0			9.50	1.04	n.a.	n.a.	0.97	0.709	n.a.	n.a.	n.a.	n.a.	0.00	0.00
15.580	10.070	0.378	1869.6	1869.6	9.772	4.132	3.09		Clay	100.0			9.52	1.03	n.a.	n.a.	0.97	0.712	n.a.	n.a.	n.a.	n.a.	0.00	0.00
15.750	9.750	0.376	1890.0	1890.0	9.317	4.273	3.11		Clay	100.0			9.22	1.03	n.a.	n.a.	0.97	0.715	n.a.	n.a.	n.a.	n.a.	0.00	0.00
15.910	9.640	0.342	1909.2	1909.2	9.098	3.940	3.10		Clay	100.0			9.11	1.03	n.a.	n.a.	0.96	0.718	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.080	9.560	0.344	1929.6	1929.6	8.909	4.001	3.11		Clay	100.0			9.04	1.02	n.a.	n.a.	0.96	0.721	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.240	9.300	0.320	1948.8	1948.8	8.544	3.844	3.11		Clay	100.0			8.79	1.02	n.a.	n.a.	0.96	0.724	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.400	9.130	0.309	1968.0	1968.0	8.278	3.791	3.12		Clay	100.0			8.63	1.02	n.a.	n.a.	0.96	0.726	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.570	8.620	0.274	1988.4	1988.4	7.670	3.597	3.14		Clay	100.0			8.15	1.02	n.a.	n.a.	0.96	0.729	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.730	8.510	0.300	2007.6	2007.6	7.478	3.997	3.17		Clay	100.0			8.04	1.01	n.a.	n.a.	0.96	0.732	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.900	8.600	0.283	2028.0	2028.0	7.481	3.733	3.15		Clay	100.0			8.13	1.01	n.a.	n.a.	0.96	0.734	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.060	8.790	0.313	2047.2	2047.2	7.587	4.031	3.17		Clay	100.0			8.31	1.01	n.a.	n.a.	0.96	0.737	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.220	8.770	0.306	2066.4	2066.4	7.488	3.960	3.17		Clay	100.0			8.29	1.01	n.a.	n.a.	0.96	0.739	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.390	8.730	0.369	2086.8	2086.8	7.367	4.794	3.22		Clay	100.0			8.25	1.00	n.a.	n.a.	0.96	0.742	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.550	9.050	0.348	2106.0	2106.0	7.594	4.355	3.19		Clay	100.0			8.55	1.00	n.a.	n.a.	0.96	0.744	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.720	9.310	0.366	2127.0	2119.5	7.782	4.437	3.18		Clay	100.0			8.80	1.00	n.a.	n.a.	0.96	0.747	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.880	9.790	0.347	2147.0	2129.5	8.186	3.982	3.14		Clay	100.0			9.25	1.00	n.a.	n.a.	0.96	0.749	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.040	10.170	0.361	2167.0	2139.5	8.494	3.975	3.13		Clay	100.0			9.61	1.00	n.a.	n.a.	0.96	0.752	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.210	10.170	0.291	2188.3	2150.2	8.442	3.207	3.07		Clay	100.0			9.61	1.00	n.a.	n.a.	0.96	0.754	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.370	9.500	0.282	2208.3	2160.2	7.773	3.362	3.12		Clay	100.0			8.98	0.99	n.a.	n.a.	0.96	0.756	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.540	9.140	0.278	2229.5	2170.8	7.394	3.467	3.14		Clay	100.0			8.64	0.99	n.a.	n.a.	0.96	0.759	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.700	9.560	0.228	2249.5	2180.9	7.736	2.708	3.07		Clay	100.0			9.04	0.99	n.a.	n.a.	0.96	0.761	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.860	10.370	0.184	2269.5	2190.9	8.431	1.990	2.96		Clay	100.0			9.80	0.99	n.a.	n.a.	0.95	0.763	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.030	11.120	0.358	2290.8	2201.5	9.062	3.584	3.08		Clay	100.0			10.51	0.99	n.a.	n.a.	0.95	0.765	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.190	10.580	0.603	2310.8	2211.5	8.523	6.393	3.25		Clay	100.0			10.00	0.99	n.a.	n.a.	0.95	0.767	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.360	19.900	0.672	2332.0	2222.2	16.861	3.585	2.86		Clay	91.8			18.81	0.99	n.a.	n.a.	0.95	0.769	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.520	16.030	0.487	2352.0	2232.2	13.309	3.277	2.92		Clay	96.4			15.15	0.99	n.a.	n.a.	0.95	0.771	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.690	10.850	0.268	2373.3	2242.8	8.617	2.772	3.03		Clay	100.0			10.26	0.98	n.a.	n.a.	0.95	0.773	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.850	8.620	0.273	2393.3	2252.9	6.590	3.680	3.20		Clay	100.0			8.15	0.98	n.a.	n.a.	0.95	0.775	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.010	8.270	0.248	2413.3	2262.9	6.243	3.510	3.20		Clay	100.0			7.82	0.98	n.a.	n.a.	0.95	0.777	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.180	8.530	0.239	2434.5	2273.5	6.433	3.272	3.18		Clay	100.0			8.06	0.98	n.a.	n.a.	0.95	0.779	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.340	7.860	0.267	2454.5	2283.5	5.809	4.021	3.26		Clay	100.0			7.43	0.98	n.a.	n.a.	0.95	0.781	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.510	8.260	0.272	2475.8	2294.2	6.122	3.866	3.24		Clay	100.0			7.81	0.98	n.a.	n.a.	0.95	0.783	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.670	8.500	0.254	2495.8	2304.2	6.295	3.500	3.20		Clay	100.0			8.03	0.98	n.a.	n.a.	0.95	0.785	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.830	8.620	0.239	2515.8	2314.2	6.363	3.246	3.18		Clay	100.0			8.15	0.98	n.a.	n.a.	0.95	0.787	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.000	9.050	0.414	2537.0	2324.8	6.694	5.315	3.28		Clay	100.0			8.55	0.98	n.a.	n.a.	0.95	0.788	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.160	10.270	0.375	2557.0	2334.9	7.702	4.167	3.17		Clay	100.0			9.71	0.97	n.a.	n.a.	0.95	0.790	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.330	37.200	0.472	2578.3	2345.5	32.239	1.315	2.38		Sand	53.0	36.27	1.8	65.29	0.96	62.36	126.14	0.95	0.792	0.987	0.186	0.264	0.33	0.03	0.05
21.490	38.370	0.236	2598.3	2355.5	33.209	0.636	2.20		Sand	39.1		1.8	65.28	0.95	62.14	118.41	0.95	0.794	0.987	0.168	0.228	0.29	0.03	0.05
21.650	22.140	0.225	2618.3	2365.5	18.622	1.081	2.53		Sand	65.6	36.27	1.8	65.29	0.95	62.17	129.86	0.95	0.795	0.985	0.197	0.284	0.36	0.02	0.05
21.820	12.760	0.272	2639.5	2376.2	9.629	2.377	2.95		Clay	99.4			12.06	0.97	n.a.	n.a.	0.94	0.797	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.980	11.580	0.354	2659.5	2386.2	8.591	3.449	3.09		Clay	100.0			10.95	0.97	n.a.	n.a.	0.94	0.799	n.a.	n.a.	n.a.	n.a.	0.00	0.00
22.150	14.810	0.488	2680.8	2396.8	11.240	3.625	3.00		Clay	100.0			14.00	0.97	n.a.	n.a.	0.94	0.800	n.a.	n.a.	n.a.	n.a.	0.00	0.00
22.310	28.670	0.598	2700.8	2406.8	22.702	2.190	2.63		Clay	73.2			27.10	0.97	n.a.	n.a.	0.94	0.802	n.a.	n.a.	n.a.	n.a.	0.00	0.00
22.470	16.740	0.441	2720.8	2416.9	12.727	2.864	2.90		Clay	95.0			15.82	0.97	n.a.	n.a.	0.94	0.803	n.a.	n.a.	n.a.	n.a.	0.00	0.00
22.640	10.410	0.308	2742.0	2427.5	7.447	3.412	3.13		Clay	100.0			9.84	0.96	n.a.	n.a.	0.94	0.805	n.a.	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No.	3

PGA (A_{max})	1.00

Total Settlement:	0.22	(Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	$CRR_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
22.800	8.140	0.219	2762.0	2437.5	5.546	3.240	3.23		Clay	100.0			7.69	0.96	n.a.	n.a.	0.94	0.806	n.a.	n.a.	n.a.	n.a.	0.00	0.00
22.970	7.910	0.202	2783.3	2448.2	5.325	3.102	3.23		Clay	100.0			7.48	0.96	n.a.	n.a.	0.94	0.808	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.130	7.760	0.183	2803.3	2458.2	5.173	2.872	3.23		Clay	100.0			7.33	0.96	n.a.	n.a.	0.94	0.809	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.290	7.480	0.198	2823.3	2468.2	4.917	3.260	3.27		Clay	100.0			7.07	0.96	n.a.	n.a.	0.94	0.811	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.460	7.700	0.229	2844.5	2478.8	5.065	3.649	3.29		Clay	100.0			7.28	0.96	n.a.	n.a.	0.94	0.812	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.620	7.980	0.273	2864.5	2488.9	5.262	4.168	3.31		Clay	100.0			7.54	0.96	n.a.	n.a.	0.94	0.814	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.790	8.210	0.291	2885.8	2499.5	5.415	4.294	3.30		Clay	100.0			7.76	0.96	n.a.	n.a.	0.94	0.815	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.950	8.480	0.300	2905.8	2509.5	5.600	4.268	3.29		Clay	100.0			8.02	0.96	n.a.	n.a.	0.94	0.816	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.110	8.460	0.294	2925.8	2519.5	5.554	4.206	3.29		Clay	100.0			8.00	0.95	n.a.	n.a.	0.94	0.818	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.280	8.490	0.288	2947.0	2530.2	5.546	4.109	3.29		Clay	100.0			8.02	0.95	n.a.	n.a.	0.94	0.819	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.440	8.450	0.253	2967.0	2540.2	5.485	3.624	3.26		Clay	100.0			7.99	0.95	n.a.	n.a.	0.93	0.820	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.610	8.390	0.238	2988.3	2550.8	5.407	3.457	3.25		Clay	100.0			7.93	0.95	n.a.	n.a.	0.93	0.821	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.770	8.110	0.232	3008.3	2560.8	5.159	3.518	3.27		Clay	100.0			7.67	0.95	n.a.	n.a.	0.93	0.823	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.930	8.110	0.235	3028.3	2570.9	5.131	3.555	3.28		Clay	100.0			7.67	0.95	n.a.	n.a.	0.93	0.824	n.a.	n.a.	n.a.	n.a.	0.00	0.00
25.100	8.110	0.233	3049.5	2581.5	5.102	3.534	3.28		Clay	100.0			7.67	0.95	n.a.	n.a.	0.93	0.825	n.a.	n.a.	n.a.	n.a.	0.00	0.00
25.260	7.380	0.213	3069.5	2591.5	4.511	3.651	3.33		Clay	100.0			6.98	0.95	n.a.	n.a.	0.93	0.826	n.a.	n.a.	n.a.	n.a.	0.00	0.00
25.430	6.610	0.184	3090.8	2602.2	3.893	3.627	3.39		Clay	100.0			6.25	0.95	n.a.	n.a.	0.93	0.827	n.a.	n.a.	n.a.	n.a.	0.00	0.00
25.590	6.580	0.194	3110.8	2612.2	3.847	3.865	3.40		Clay	100.0			6.22	0.95	n.a.	n.a.	0.93	0.829	n.a.	n.a.	n.a.	n.a.	0.00	0.00
25.750	7.170	0.280	3130.8	2622.2	4.275	4.987	3.43		Clay	100.0			6.78	0.94	n.a.	n.a.	0.93	0.830	n.a.	n.a.	n.a.	n.a.	0.00	0.00
25.920	8.370	0.288	3152.0	2632.8	5.161	4.239	3.32		Clay	100.0			7.91	0.94	n.a.	n.a.	0.93	0.831	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.080	14.210	0.307	3172.0	2642.8	9.553	2.433	2.96		Clay	100.0			13.43	0.94	n.a.	n.a.	0.93	0.832	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.250	18.740	0.479	3193.3	2653.5	12.921	2.794	2.89		Clay	94.0			17.71	0.94	n.a.	n.a.	0.93	0.833	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.410	15.950	0.622	3213.3	2663.5	10.770	4.334	3.06		Clay	100.0			15.08	0.94	n.a.	n.a.	0.93	0.834	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.570	27.220	0.542	3233.3	2673.5	19.153	2.115	2.68		Clay	77.3			25.73	0.94	n.a.	n.a.	0.93	0.835	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.740	16.830	0.435	3254.5	2684.2	11.328	2.863	2.94		Clay	98.3			15.91	0.94	n.a.	n.a.	0.93	0.836	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.900	11.060	0.435	3274.5	2694.2	6.995	4.613	3.23		Clay	100.0			10.45	0.94	n.a.	n.a.	0.93	0.837	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.070	11.730	0.504	3295.8	2704.8	7.455	4.995	3.23		Clay	100.0			11.09	0.94	n.a.	n.a.	0.92	0.838	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.230	13.760	0.601	3315.8	2714.8	8.916	4.965	3.17		Clay	100.0			13.01	0.94	n.a.	n.a.	0.92	0.839	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.400	15.030	0.665	3337.0	2725.5	9.805	4.975	3.13		Clay	100.0			14.21	0.94	n.a.	n.a.	0.92	0.840	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.560	15.490	0.671	3357.0	2735.5	10.098	4.856	3.12		Clay	100.0			14.64	0.93	n.a.	n.a.	0.92	0.841	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.720	16.180	0.647	3377.0	2745.5	10.557	4.465	3.08		Clay	100.0			15.29	0.93	n.a.	n.a.	0.92	0.842	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.890	16.150	0.577	3398.3	2756.2	10.486	3.993	3.05		Clay	100.0			15.26	0.93	n.a.	n.a.	0.92	0.843	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.050	15.940	0.606	3418.3	2766.2	10.289	4.255	3.08		Clay	100.0			15.07	0.93	n.a.	n.a.	0.92	0.844	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.220	16.210	0.665	3439.5	2776.8	10.437	4.589	3.09		Clay	100.0			15.32	0.93	n.a.	n.a.	0.92	0.845	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.380	17.550	0.659	3459.5	2786.8	11.354	4.165	3.04		Clay	100.0			16.59	0.93	n.a.	n.a.	0.92	0.845	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.540	17.500	0.663	3479.5	2796.8	11.270	4.209	3.04		Clay	100.0			16.54	0.93	n.a.	n.a.	0.92	0.846	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.710	16.920	0.659	3500.8	2807.5	10.807	4.343	3.06		Clay	100.0			15.99	0.93	n.a.	n.a.	0.92	0.847	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.870	16.880	0.685	3520.8	2817.5	10.733	4.528	3.08		Clay	100.0			15.95	0.93	n.a.	n.a.	0.92	0.848	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.040	16.110	0.666	3542.0	2828.1	10.140	4.642	3.10		Clay	100.0			15.23	0.93	n.a.	n.a.	0.92	0.849	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.200	15.240	0.658	3562.0	2838.2	9.484	4.886	3.14		Clay	100.0			14.40	0.93	n.a.	n.a.	0.92	0.850	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.360	14.120	0.597	3582.0	2848.2	8.657	4.838	3.17		Clay	100.0			13.35	0.92	n.a.	n.a.	0.92	0.850	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.530	12.750	0.540	3603.3	2858.8	7.659	4.935	3.22		Clay	100.0			12.05	0.92	n.a.	n.a.	0.91	0.851	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.690	11.810	0.434	3623.3	2868.8	6.970	4.337	3.22		Clay	100.0			11.16	0.92	n.a.	n.a.	0.91	0.852	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.860	11.340	0.424	3644.5	2879.5	6.611	4.454	3.24		Clay	100.0			10.72	0.92	n.a.	n.a.	0.91	0.853	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.020	11.430	0.429	3664.5	2889.5	6.643	4.472	3.24		Clay	100.0			10.80	0.92	n.a.	n.a.	0.91	0.853	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.180	12.150	0.485	3684.5	2899.5	7.110	4.707	3.23		Clay	100.0			11.48	0.92	n.a.	n.a.	0.91	0.854	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.350	11.480	0.478	3705.8	2910.2	6.616	4.960	3.27		Clay	100.0			10.85	0.92	n.a.	n.a.	0.91	0.855	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.510	11.400	0.418	3725.8	2920.2	6.532	4.383	3.24		Clay	100.0			10.78	0.92	n.a.	n.a.	0.91	0.855	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.680	11.520	0.347	3747.0	2930.8	6.583	3.601	3.19		Clay	100.0			10.89	0.92	n.a.	n.a.	0.91	0.856	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.840	11.770	0.308	3767.0	2940.8	6.724	3.110	3.15		Clay	100.0			11.12	0.92	n.a.	n.a.	0.91	0.857	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.000	12.380	0.322	3787.0	2950.8	7.107	3.073	3.13		Clay	100.0			11.70	0.92	n.a.	n.a.	0.91	0.857	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.170	11.910	0.333	3808.3	2961.5	6.757	3.325	3.16		Clay	100.0			11.26	0.92	n.a.	n.a.	0.91	0.858	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.330	11.730	0.405	3828.3	2971.5	6.607	4.123	3.22		Clay	100.0			11.09	0.91	n.a.	n.a.	0.91	0.858	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.500	12.770	0.463	3849.5	2982.1	7.273	4.271	3.20		Clay	100.0			12.07	0.91	n.a.	n.a.	0.91	0.859	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.660	14.510	0.457	3869.5	2992.2	8.405	3.631	3.11		Clay	100.0			13.71	0.91	n.a.	n.a.	0.91	0.860	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.820	15.710	0.457	3889.5	3002.2	9.170	3.318	3.05		Clay	100.0			14.85	0.91	n.a.	n.a.	0.91	0.860	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.990	16.510	0.461	3910.8	3012.8	9.662	3.164	3.02		Clay	100.0			15.60	0.91	n.a.	n.a.	0.90	0.861	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.150	17.140	0.474	3930.8	3022.8	10.040	3.122	3.01		Clay	100.0			16.20	0.91	n.a.	n.a.	0.90	0.861	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.320	17.680	0.481	3952.0	3033.5	10.354	3.064	2.99		Clay	100.0			16.71	0.91	n.a.	n.a.	0.90	0.862	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.480	17.740	0.461	3972.0	3043.5	10.353	2.923	2.98		Clay	100.0			16.77	0.91	n.a.	n.a.	0.90	0.862	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.640	17.460	0.468	3992.0	3053.5	10.129	3.024	2.99		Clay	100.0			16.50	0.91	n.a.	n.a.	0.90	0.863	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.810	17.120	0.479	4013.3	3064.1	9.865	3.169	3.02		Clay	100.0			16.18	0.91	n.a.	n.a.	0.90	0.863	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.970	17.020	0.469	4033.3	3074.2	9.761	3.124	3.02		Clay	100.0			16.09	0.91	n.a.	n.a.	0.90	0.864	n.a.	n.a.	n.a.	n.a.	0.00	0.00
33.140	16.350	0.436	4054.5	3084.8	9.286	3.041	3.03		Clay	100.0			15.45	0.91	n.a.	n.a.	0.90	0.864	n.a.	n.a.	n.a.	n.a.	0.00	0.00
33.300	14.080	0.355	4074.5	3094.8	7.783	2.945	3.08		Clay	100.0			13.31	0.90	n.a.	n.a.	0.90	0.865	n.a.	n.a.	n.a.	n.a.	0.00	0.00
33.460	11.380	0.311	4094.5	3104.8	6.012	3.336	3.21		Clay	100.0			10.76	0.90	n.a.	n.a.	0.90	0.865	n.a.	n.a.	n.a.	n.a.	0.00	0.00
33.630	9.560	0.249	4115.8	3115.5	4.816	3.323	3.29		Clay	100.0			9.04	0.90	n.a.	n.a.	0.90	0.866	n.a.	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No.	3

PGA (A_{max})	1.00

Total Settlement:	0.22	(Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	$CRR_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
33.790	10.030	0.216	4135.8	3125.5	5.095	2.707	3.22		Clay	100.0			9.48	0.90	n.a.	n.a.	0.90	0.866	n.a.	n.a.	n.a.	n.a.	0.00	0.00
33.960	10.520	0.205	4157.0	3136.1	5.383	2.431	3.17		Clay	100.0			9.94	0.90	n.a.	n.a.	0.90	0.867	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.120	10.770	0.198	4177.0	3146.2	5.519	2.277	3.15		Clay	100.0			10.18	0.90	n.a.	n.a.	0.90	0.867	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.280	11.000	0.266	4197.0	3156.2	5.641	2.984	3.20		Clay	100.0			10.40	0.90	n.a.	n.a.	0.90	0.867	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.450	11.950	0.382	4218.3	3166.8	6.215	3.879	3.23		Clay	100.0			11.29	0.90	n.a.	n.a.	0.89	0.868	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.610	13.720	0.384	4238.3	3176.8	7.303	3.306	3.13		Clay	100.0			12.97	0.90	n.a.	n.a.	0.89	0.868	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.780	17.380	0.503	4259.5	3187.5	9.569	3.299	3.04		Clay	100.0			16.43	0.90	n.a.	n.a.	0.89	0.869	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.940	16.030	0.528	4279.5	3197.5	8.688	3.799	3.11		Clay	100.0			15.15	0.90	n.a.	n.a.	0.89	0.869	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.100	16.200	0.614	4299.5	3207.5	8.761	4.369	3.14		Clay	100.0			15.31	0.90	n.a.	n.a.	0.89	0.869	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.270	16.160	0.587	4320.8	3218.1	8.700	4.194	3.13		Clay	100.0			15.27	0.90	n.a.	n.a.	0.89	0.870	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.430	16.990	0.517	4340.8	3228.2	9.181	3.491	3.06		Clay	100.0			16.06	0.89	n.a.	n.a.	0.89	0.870	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.600	16.280	0.461	4362.0	3238.8	8.706	3.269	3.07		Clay	100.0			15.39	0.89	n.a.	n.a.	0.89	0.870	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.760	15.280	0.418	4382.0	3248.8	8.058	3.190	3.09		Clay	100.0			14.44	0.89	n.a.	n.a.	0.89	0.871	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.930	15.870	0.475	4403.3	3259.5	8.387	3.475	3.10		Clay	100.0			15.00	0.89	n.a.	n.a.	0.89	0.871	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.090	17.260	0.655	4423.3	3269.5	9.205	4.353	3.12		Clay	100.0			16.31	0.89	n.a.	n.a.	0.89	0.871	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.250	22.200	0.776	4443.3	3279.5	12.184	3.886	2.99		Clay	100.0			20.98	0.89	n.a.	n.a.	0.89	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.420	23.770	0.829	4464.5	3290.1	13.092	3.847	2.97		Clay	100.0			22.47	0.89	n.a.	n.a.	0.89	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.580	23.080	0.796	4484.5	3300.1	12.628	3.821	2.98		Clay	100.0			21.81	0.89	n.a.	n.a.	0.89	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.750	22.700	0.758	4505.8	3310.8	12.352	3.706	2.98		Clay	100.0			21.46	0.89	n.a.	n.a.	0.89	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.910	21.740	0.765	4525.8	3320.8	11.730	3.928	3.01		Clay	100.0			20.55	0.89	n.a.	n.a.	0.88	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.070	20.570	0.718	4545.8	3330.8	10.987	3.925	3.03		Clay	100.0			19.44	0.89	n.a.	n.a.	0.88	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.240	20.090	0.681	4567.0	3341.5	10.658	3.825	3.04		Clay	100.0			18.99	0.89	n.a.	n.a.	0.88	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.400	18.490	0.504	4587.0	3351.5	9.665	3.111	3.02		Clay	100.0			17.48	0.89	n.a.	n.a.	0.88	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.570	16.380	0.422	4608.3	3362.1	8.373	2.997	3.06		Clay	100.0			15.48	0.89	n.a.	n.a.	0.88	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.730	15.180	0.436	4628.3	3372.1	7.631	3.385	3.12		Clay	100.0			14.35	0.88	n.a.	n.a.	0.88	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.890	15.970	0.500	4648.3	3382.2	8.069	3.667	3.12		Clay	100.0			15.09	0.88	n.a.	n.a.	0.88	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.060	17.770	0.570	4669.5	3392.8	9.099	3.692	3.08		Clay	100.0			16.80	0.88	n.a.	n.a.	0.88	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.220	18.210	0.600	4689.5	3402.8	9.325	3.779	3.08		Clay	100.0			17.21	0.88	n.a.	n.a.	0.88	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.390	17.610	0.634	4710.8	3413.5	8.938	4.156	3.12		Clay	100.0			16.64	0.88	n.a.	n.a.	0.88	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.550	17.770	0.592	4730.8	3423.5	8.999	3.842	3.10		Clay	100.0			16.80	0.88	n.a.	n.a.	0.88	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.710	17.830	0.588	4750.8	3433.5	9.002	3.805	3.09		Clay	100.0			16.85	0.88	n.a.	n.a.	0.88	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.880	16.500	0.586	4772.0	3444.1	8.196	4.149	3.15		Clay	100.0			15.60	0.88	n.a.	n.a.	0.88	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.040	16.320	0.582	4792.0	3454.1	8.062	4.176	3.16		Clay	100.0			15.43	0.88	n.a.	n.a.	0.88	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.210	16.220	0.550	4813.3	3464.8	7.974	3.978	3.15		Clay	100.0			15.33	0.88	n.a.	n.a.	0.87	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.370	15.860	0.511	4833.3	3474.8	7.738	3.797	3.15		Clay	100.0			14.99	0.88	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.530	15.840	0.488	4853.3	3484.8	7.698	3.640	3.14		Clay	100.0			14.97	0.88	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.700	16.640	0.547	4874.5	3495.5	8.126	3.851	3.13		Clay	100.0			15.73	0.88	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.860	17.090	0.493	4894.5	3505.5	8.354	3.364	3.09		Clay	100.0			16.15	0.88	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.030	17.010	0.411	4915.8	3516.1	8.277	2.826	3.05		Clay	100.0			16.08	0.87	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.190	16.350	0.403	4935.8	3526.1	7.874	2.905	3.08		Clay	100.0			15.45	0.87	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.350	15.930	0.425	4955.8	3536.2	7.608	3.159	3.11		Clay	100.0			15.06	0.87	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.520	16.230	0.442	4977.0	3546.8	7.749	3.215	3.11		Clay	100.0			15.34	0.87	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.680	16.330	0.366	4997.0	3556.8	7.777	2.643	3.06		Clay	100.0			15.43	0.87	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.850	15.950	0.356	5018.3	3567.5	7.535	2.647	3.07		Clay	100.0			15.08	0.87	n.a.	n.a.	0.87	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.010	15.530	0.351	5038.3	3577.5	7.274	2.700	3.09		Clay	100.0			14.68	0.87	n.a.	n.a.	0.87	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.170	15.520	0.330	5058.3	3587.5	7.242	2.543	3.07		Clay	100.0			14.67	0.87	n.a.	n.a.	0.87	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.340	15.470	0.284	5079.5	3598.1	7.187	2.194	3.04		Clay	100.0			14.62	0.87	n.a.	n.a.	0.87	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.500	14.750	0.234	5099.5	3608.1	6.763	1.917	3.04		Clay	100.0			13.94	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.670	15.510	0.189	5120.8	3618.8	7.157	1.460	2.96		Clay	99.7			14.66	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.830	16.920	0.175	5140.8	3628.8	7.909	1.216	2.88		Clay	93.7			15.99	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.990	17.610	0.179	5160.8	3638.8	8.261	1.191	2.86		Clay	92.0			16.64	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.160	18.120	0.226	5182.0	3649.5	8.510	1.452	2.89		Clay	94.3			17.13	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.320	20.510	0.404	5202.0	3659.5	9.788	2.254	2.94		Clay	97.9			19.39	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.490	24.330	0.755	5223.3	3670.1	11.835	3.475	2.97		Clay	100.0			23.00	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.650	30.440	0.835	5243.3	3680.1	15.118	3.002	2.85		Clay	91.1			28.77	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.810	30.020	0.676	5263.3	3690.1	14.844	2.468	2.81		Clay	87.6			28.37	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.980	25.230	0.582	5284.5	3700.8	12.207	2.575	2.89		Clay	94.0			23.85	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.140	24.850	0.670	5304.5	3710.8	11.964	3.020	2.93		Clay	97.8			23.49	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.310	26.630	0.870	5325.8	3721.4	12.881	3.632	2.96		Clay	99.5			25.17	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.470	27.660	1.073	5345.8	3731.5	13.393	4.294	2.99		Clay	100.0			26.14	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.640	28.140	1.121	5367.0	3742.1	13.605	4.404	2.99		Clay	100.0			26.60	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.800	29.250	1.150	5387.0	3752.1	14.155	4.332	2.97		Clay	100.0			27.65	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.960	29.730	1.145	5407.0	3762.1	14.368	4.237	2.96		Clay	99.8			28.10	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
44.130	30.180	1.235	5428.3	3772.8	14.560	4.498	2.97		Clay	100.0			28.53	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
44.290	31.210	1.348	5448.3	3782.8	15.061	4.733	2.97		Clay	100.0			29.50	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
44.460	31.710	1.342	5469.5	3793.4	15.277	4.632	2.96		Clay	100.0			29.97	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
44.620	31.360	1.344	5489.5	3803.5	15.047	4.697	2.97		Clay	100.0			29.64	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 3

PGA (A_{max}) 1.00

Total Settlement: 0.22 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	$CRR_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
44.780	30.110	1.354	5509.5	3813.5	14.347	4.949	3.00		Clay	100.0			28.46	0.86	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
44.950	28.210	1.191	5530.8	3824.1	13.307	4.682	3.01		Clay	100.0			26.66	0.86	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.110	27.050	0.953	5550.8	3834.1	12.662	3.927	2.98		Clay	100.0			25.57	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.280	25.450	0.857	5572.0	3844.8	11.790	3.783	3.00		Clay	100.0			24.05	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.440	24.550	0.827	5592.0	3854.8	11.287	3.802	3.01		Clay	100.0			23.20	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.600	23.210	0.806	5612.0	3864.8	10.559	3.952	3.05		Clay	100.0			21.94	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.770	22.950	0.875	5633.3	3875.4	10.390	4.345	3.08		Clay	100.0			21.69	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.930	23.120	0.871	5653.3	3885.5	10.446	4.290	3.07		Clay	100.0			21.85	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.100	22.960	0.868	5674.5	3896.1	10.330	4.313	3.08		Clay	100.0			21.70	0.85	n.a.	n.a.	0.84	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.260	21.810	0.829	5694.5	3906.1	9.709	4.372	3.10		Clay	100.0			20.61	0.85	n.a.	n.a.	0.84	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.420	21.140	0.806	5714.5	3916.1	9.337	4.409	3.12		Clay	100.0			19.98	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.590	20.590	0.770	5735.8	3926.8	9.026	4.345	3.13		Clay	100.0			19.46	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.750	19.480	0.694	5755.8	3936.8	8.434	4.181	3.14		Clay	100.0			18.41	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.920	18.270	0.596	5777.0	3947.4	7.793	3.877	3.15		Clay	100.0			17.27	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.080	17.320	0.506	5797.0	3957.4	7.288	3.510	3.15		Clay	100.0			16.37	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.240	17.110	0.460	5817.0	3967.5	7.159	3.236	3.14		Clay	100.0			16.17	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.410	17.320	0.512	5838.3	3978.1	7.240	3.555	3.15		Clay	100.0			16.37	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.570	18.100	0.530	5858.3	3988.1	7.608	3.494	3.13		Clay	100.0			17.11	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.740	19.360	0.542	5879.5	3998.8	8.213	3.299	3.09		Clay	100.0			18.30	0.85	n.a.	n.a.	0.84	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.900	18.880	0.494	5899.5	4008.8	7.948	3.102	3.09		Clay	100.0			17.84	0.84	n.a.	n.a.	0.84	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.060	18.800	0.492	5919.5	4018.8	7.883	3.108	3.09		Clay	100.0			17.77	0.84	n.a.	n.a.	0.84	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.230	19.040	0.500	5940.8	4029.4	7.976	3.109	3.09		Clay	100.0			18.00	0.84	n.a.	n.a.	0.84	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.390	19.080	0.539	5960.8	4039.5	7.971	3.350	3.11		Clay	100.0			18.03	0.84	n.a.	n.a.	0.83	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.560	18.360	0.497	5982.0	4050.1	7.589	3.231	3.11		Clay	100.0			17.35	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.720	17.120	0.452	6002.0	4060.1	6.955	3.204	3.14		Clay	100.0			16.18	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.880	16.060	0.379	6022.0	4070.1	6.412	2.907	3.15		Clay	100.0			15.18	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
49.050	15.830	0.391	6043.3	4080.8	6.277	3.051	3.17		Clay	100.0			14.96	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
49.210	16.610	0.396	6063.3	4090.8	6.639	2.915	3.14		Clay	100.0			15.70	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
49.380	17.250	0.394	6084.5	4101.4	6.928	2.776	3.11		Clay	100.0			16.30	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
49.540	17.240	0.382	6104.5	4111.4	6.902	2.689	3.11		Clay	100.0			16.29	0.84	n.a.	n.a.	0.83	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
49.700	16.520	0.337	6124.5	4121.5	6.531	2.503	3.11		Clay	100.0			15.61	0.84	n.a.	n.a.	0.83	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
49.870	16.150	0.267	6145.8	4132.1	6.330	2.039	3.08		Clay	100.0			15.26	0.84	n.a.	n.a.	0.83	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
50.030	16.570	0.260	6165.8	4142.1	6.512	1.924	3.05		Clay	100.0			15.66	0.84	n.a.	n.a.	0.83	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
50.200	16.080	0.281	6187.0	4152.8	6.254	2.160	3.09		Clay	100.0			15.20	0.84	n.a.	n.a.	0.83	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 4

PGA (A_{max}) 1.00

Total Settlement: 0.19 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	$CRR_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
0.820	82.330	0.395	98.4	98.4	360.639	0.480	1.28		Unsaturated	0.0			77.82	1.70	132.29	132.29	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
0.980	185.120	0.648	117.6	117.6	741.966	0.350	0.97		Unsaturated	0.0			174.97	1.70	297.45	297.45	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.150	128.500	0.875	138.0	138.0	475.338	0.682	1.32		Unsaturated	0.0			121.46	1.70	206.47	206.47	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.310	80.840	1.013	157.2	157.2	280.059	1.254	1.67		Unsaturated	0.0			76.41	1.70	129.89	129.89	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.480	50.150	1.223	177.6	177.6	163.325	2.443	2.04		Unsaturated	26.3			47.40	1.70	80.58	126.93	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.640	32.270	1.195	196.8	196.8	99.709	3.714	2.32		Unsaturated	48.4			30.50	1.70	51.85	110.87	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.800	20.380	0.960	216.0	216.0	59.971	4.735	2.54		Unsaturated	66.3			19.26	1.70	32.75	92.14	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
1.970	17.680	0.881	236.4	236.4	76.982	5.019	2.49		Unsaturated	62.1			16.71	1.70	28.41	85.62	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.130	16.230	1.132	255.6	255.6	66.829	7.027	2.64		Unsaturated	74.3			15.34	1.70	26.08	85.05	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.300	25.730	1.364	276.0	276.0	66.976	5.329	2.55		Unsaturated	66.8			24.32	1.70	41.34	103.34	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.460	30.480	1.451	295.2	295.2	76.757	4.783	2.47		Unsaturated	60.9			28.81	1.70	48.98	111.68	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.620	25.140	1.146	314.4	314.4	61.259	4.587	2.52		Unsaturated	64.9			23.76	1.70	40.40	101.69	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.790	18.250	0.774	334.8	334.8	62.128	4.278	2.50		Unsaturated	62.8			17.25	1.70	29.32	86.96	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
2.950	13.150	0.531	354.0	354.0	42.866	4.094	2.60		Unsaturated	70.6			12.43	1.70	21.13	78.01	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.120	10.130	0.433	374.4	374.4	31.590	4.356	2.71		Unsaturated	79.7			9.57	1.70	16.28	73.13	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.280	8.380	0.379	393.6	393.6	41.581	4.628	2.64		Unsaturated	74.4			7.92	1.70	13.47	68.72	1.00	0.650	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.440	6.350	0.280	412.8	412.8	29.766	4.549	2.74		Unsaturated	82.3			6.00	1.70	10.20	65.56	1.00	0.649	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.610	5.970	0.225	433.2	433.2	26.562	3.907	2.73		Unsaturated	81.6			5.64	1.70	9.59	64.69	1.00	0.649	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.770	5.560	0.150	452.4	452.4	23.580	2.812	2.68		Unsaturated	77.4			5.26	1.70	8.93	63.29	1.00	0.649	1.100	n.a.	n.a.	n.a.	0.00	0.00
3.940	4.720	0.085	472.8	472.8	18.966	1.900	2.66		Unsaturated	75.4			4.46	1.70	7.58	61.26	1.00	0.649	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.100	2.980	0.069	492.0	492.0	11.114	2.535	2.92		Unsaturated	96.4			2.82	1.70	4.79	59.92	1.00	0.648	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.270	2.850	0.073	512.4	512.4	10.124	2.795	2.98		Unsaturated	100.0			2.69	1.70	4.58	59.93	1.00	0.648	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.430	3.800	0.103	531.6	531.6	13.296	2.909	2.89		Unsaturated	94.0			3.59	1.70	6.11	61.44	1.00	0.648	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.590	3.720	0.123	550.8	550.8	12.508	3.571	2.96		Unsaturated	100.0			3.52	1.70	5.98	61.76	1.00	0.648	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.760	4.470	0.113	571.2	571.2	14.651	2.710	2.84		Unsaturated	89.9			4.22	1.70	7.18	62.45	1.00	0.647	1.100	n.a.	n.a.	n.a.	0.00	0.00
4.920	4.360	0.143	590.4	590.4	13.770	3.513	2.92		Unsaturated	96.9			4.12	1.70	7.01	62.87	1.00	0.647	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.090	4.490	0.306	610.8	610.8	13.702	7.315	3.13		Unsaturated	100.0			4.24	1.70	7.21	63.39	1.00	0.647	1.099	n.a.	n.a.	n.a.	0.00	0.00
5.250	5.530	0.580	630.0	630.0	16.556	11.112	3.19		Unsaturated	100.0			5.23	1.70	8.89	65.58	0.99	0.647	1.098	n.a.	n.a.	n.a.	0.00	0.00
5.410	11.890	0.869	649.2	649.2	35.630	7.516	2.84		Unsaturated	90.3			11.24	1.70	19.10	78.06	0.99	0.646	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.580	16.420	1.020	669.6	669.6	48.044	6.341	2.70		Unsaturated	79.0			15.52	1.70	26.38	86.15	0.99	0.646	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.740	19.090	1.100	688.8	688.8	54.430	5.867	2.64		Unsaturated	74.1			18.04	1.70	30.67	90.96	0.99	0.646	1.100	n.a.	n.a.	n.a.	0.00	0.00
5.910	20.290	1.118	709.2	709.2	56.219	5.609	2.61		Unsaturated	72.2			19.18	1.70	32.60	93.12	0.99	0.646	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.070	21.370	1.207	728.4	728.4	57.677	5.746	2.62		Unsaturated	72.2			20.20	1.70	34.34	95.37	0.99	0.645	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.230	22.550	1.335	747.6	747.6	59.326	6.021	2.62		Unsaturated	72.8			21.31	1.69	35.99	97.61	0.99	0.645	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.400	23.960	1.455	768.0	768.0	61.396	6.171	2.62		Unsaturated	72.7			22.65	1.66	37.55	99.62	0.99	0.645	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.560	25.230	1.513	787.2	787.2	63.101	6.091	2.61		Unsaturated	71.7			23.85	1.63	38.92	101.21	0.99	0.645	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.730	25.190	1.507	807.6	807.6	61.382	6.081	2.62		Unsaturated	72.3			23.81	1.61	38.42	100.66	0.99	0.644	1.100	n.a.	n.a.	n.a.	0.00	0.00
6.890	23.930	1.404	826.8	826.8	56.886	5.969	2.63		Unsaturated	73.5			22.62	1.60	36.27	98.10	0.99	0.644	1.098	n.a.	n.a.	n.a.	0.00	0.00
7.050	22.640	1.292	846.0	846.0	52.522	5.813	2.65		Unsaturated	74.6			21.40	1.59	34.10	95.49	0.99	0.644	1.094	n.a.	n.a.	n.a.	0.00	0.00
7.220	21.510	1.185	866.4	866.4	48.654	5.624	2.66		Unsaturated	75.6			20.33	1.58	32.17	93.13	0.99	0.644	1.090	n.a.	n.a.	n.a.	0.00	0.00
7.380	20.650	1.154	885.6	885.6	45.635	5.708	2.68		Unsaturated	77.4			19.52	1.57	30.64	91.45	0.99	0.643	1.087	n.a.	n.a.	n.a.	0.00	0.00
7.550	19.900	1.190	906.0	906.0	42.929	6.121	2.72		Unsaturated	80.7			18.81	1.56	29.26	90.13	0.99	0.643	1.083	n.a.	n.a.	n.a.	0.00	0.00
7.710	20.890	1.284	925.2	925.2	44.158	6.286	2.72		Unsaturated	80.7			19.74	1.53	30.30	91.49	0.99	0.643	1.082	n.a.	n.a.	n.a.	0.00	0.00
7.870	22.430	1.450	944.4	944.4	46.501	6.604	2.72		Unsaturated	80.8			21.20	1.51	32.05	93.77	0.99	0.642	1.082	n.a.	n.a.	n.a.	0.00	0.00
8.040	23.300	1.536	964.8	964.8	47.300	6.733	2.72		Unsaturated	80.9			22.02	1.49	32.87	94.85	0.99	0.642	1.080	n.a.	n.a.	n.a.	0.00	0.00
8.200	24.580	1.564	984.0	984.0	48.959	6.493	2.70		Unsaturated	79.1			23.23	1.47	34.23	96.38	0.99	0.642	1.079	n.a.	n.a.	n.a.	0.00	0.00
8.370	26.470	1.625	1004.4	1004.4	51.708	6.256	2.67		Unsaturated	76.9			25.02	1.45	36.34	98.76	0.99	0.642	1.078	n.a.	n.a.	n.a.	0.00	0.00
8.530	27.190	1.655	1023.6	1023.6	52.126	6.205	2.67		Unsaturated	76.5			25.70	1.44	36.93	99.47	0.99	0.641	1.077	n.a.	n.a.	n.a.	0.00	0.00
8.690	27.760	1.702	1042.8	1042.8	52.241	6.248	2.67		Unsaturated	76.7			26.24	1.42	37.33	100.00	0.99	0.641	1.075	n.a.	n.a.	n.a.	0.00	0.00
8.860	28.220	1.720	1063.2	1063.2	52.085	6.213	2.67		Unsaturated	76.6			26.67	1.41	37.56	100.30	0.99	0.641	1.073	n.a.	n.a.	n.a.	0.00	0.00
9.020	27.700	1.705	1082.4	1082.4	50.183	6.276	2.68		Unsaturated	77.7			26.18	1.40	36.60	99.23	0.99	0.640	1.071	n.a.	n.a.	n.a.	0.00	0.00
9.190	26.940	1.632	1102.8	1102.8	47.857	6.184	2.69		Unsaturated	78.4			25.46	1.39	35.35	97.71	0.98	0.640	1.068	n.a.	n.a.	n.a.	0.00	0.00
9.350	26.990	1.596	1122.0	1122.0	47.111	6.038	2.69		Unsaturated	78.1			25.51	1.38	35.12	97.38	0.98	0.640	1.066	n.a.	n.a.	n.a.	0.00	0.00
9.510	26.730	1.573	1141.2	1141.2	45.845	6.013	2.70		Unsaturated	78.7			25.26	1.37	34.52	96.68	0.98	0.640	1.064	n.a.	n.a.	n.a.	0.00	0.00
9.680	23.340	1.521	1161.6	1161.6	39.186	6.684	2.78		Unsaturated	85.1			22.06	1.36	30.08	91.78	0.98	0.639	1.060	n.a.	n.a.	n.a.	0.00	0.00
9.840	22.910	1.243	1180.8	1180.8	37.804	5.570	2.73		Unsaturated	81.3			21.65	1.35	29.33	90.32	0.98	0.639	1.057	n.a.	n.a.	n.a.	0.00	0.00
10.010	27.570	1.027	1201.2	1201.2	37.889	3.809	2.61		Unsaturated	71.9			26.06	1.33	34.73	95.83	0.98	0.639	1.058	n.a.	n.a.	n.a.	0.00	0.00
10.170	36.580	0.920	1220.4	1220.4	44.767	2.558	2.44		Unsaturated	58.3			34.57	1.31	45.15	106.03	0.98	0.638	1.061	n.a.	n.a.	n.a.	0.00	0.00
10.330	44.710	0.847	1239.6	1239.6	54.447	1.921	2.30		Unsaturated	46.6			42.26	1.29	54.34	113.18	0.98	0.638	1.063	n.a.	n.a.	n.a.	0.00	0.00
10.500	47.090	0.849	1260.0	1260.0	56.907	1.827	2.27		Unsaturated	44.3			44.51	1.27	56.69	114.93	0.98	0.638	1.062	n.a.	n.a.	n.a.	0.00	0.00
10.660	43.450	0.889	1279.2	1279.2	52.042	2.076	2.33		Unsaturated	49.6			41.07	1.27	52.11	111.73	0.98	0.638	1.059	n.a.	n.a.	n.a.	0.00	0.00
10.830	35.360	0.897	1299.6	1299.6	41.862	2.585	2.47		Unsaturated	60.3			33.42	1.27	42.46	103.16	0.98	0.637	1.053	n.a.	n.a.	n.a.	0.00	0.00
10.990	24.900	0.868	1318.8	1318.8	36.762	3.581	2.60		Unsaturated	71.2			23.53	1.28	30.12	89.74	0.98	0.637	1.046	n.a.	n.a.	n.a.	0.00	0.00
11.150	19.240	0.677	1338.0	1338.0	27.759	3.644	2.70		Unsaturated	78.9			18.19	1.28	23.30	82.14	0.98	0.637	1.042	n.a.	n.a.	n.a.	0.00	0.00
11.320	17.240	0.766	1358.4	1358.4	24.383	4.625	2.81		Unsaturated	87.7			16.29	1.27	20.76	79.95	0.98	0.636	1.040	n.a.	n.a.	n.a.	0.00	0.00
11.480	14.480	0.799	1377.6	1377.6	20.022	5.794	2.94		Unsaturated	98.1			13.69	1.27	17.37	76.53	0.98	0.636	1.038	n.a.	n.a.	n.a.	0.00	0.00
11.650	13.930	0.802	1398.0	1398.0	18.928	6.063	2.97		Unsaturated	100.0			13.17	1.26	16.59	75.67	0.98	0.636	1.036	n.a.	n.a.	n.a.	0.00	0.00
11.810	16.160	0.767	1417.2	1417.2	21.806	4.962	2.87		Unsaturated	92.3			15.27	1.25	19.05	78.19	0.98	0.635	1.036	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No.	4

PGA (A_{max})	1.00

Total Settlement:	0.19	(Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	$CRR_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
11.980	17.480	0.637	1437.6	1437.6	23.318	3.797	2.77		Unsaturated	84.4			16.52	1.24	20.42	79.12	0.98	0.635	1.035	n.a.	n.a.	n.a.	0.00	0.00
12.140	22.390	0.664	1456.8	1456.8	29.739	3.065	2.63		Clay	73.1			21.16	1.10	n.a.	n.a.	0.98	0.639	n.a.	n.a.	n.a.	n.a.	0.00	0.00
12.300	29.080	0.621	1476.0	1476.0	32.074	2.193	2.51		Sand	63.7			27.49	1.20	33.10	92.02	0.98	0.643	1.036	0.128	0.162	0.25	0.03	0.07
12.470	20.780	0.502	1496.4	1496.4	26.773	2.504	2.61		Clay	71.5			19.64	1.10	n.a.	n.a.	0.98	0.647	n.a.	n.a.	n.a.	n.a.	0.00	0.00
12.630	14.700	0.394	1515.6	1515.6	18.398	2.828	2.77		Clay	84.4			13.89	1.09	n.a.	n.a.	0.98	0.651	n.a.	n.a.	n.a.	n.a.	0.00	0.00
12.800	10.830	0.324	1536.0	1536.0	13.102	3.217	2.92		Clay	96.5			10.24	1.09	n.a.	n.a.	0.97	0.655	n.a.	n.a.	n.a.	n.a.	0.00	0.00
12.960	9.330	0.335	1555.2	1555.2	10.998	3.914	3.03		Clay	100.0			8.82	1.08	n.a.	n.a.	0.97	0.658	n.a.	n.a.	n.a.	n.a.	0.00	0.00
13.120	9.020	0.334	1574.4	1574.4	10.458	4.058	3.06		Clay	100.0			8.53	1.08	n.a.	n.a.	0.97	0.662	n.a.	n.a.	n.a.	n.a.	0.00	0.00
13.290	8.490	0.317	1594.8	1594.8	9.647	4.120	3.09		Clay	100.0			8.02	1.08	n.a.	n.a.	0.97	0.666	n.a.	n.a.	n.a.	n.a.	0.00	0.00
13.450	7.990	0.302	1614.0	1614.0	8.901	4.207	3.12		Clay	100.0			7.55	1.07	n.a.	n.a.	0.97	0.670	n.a.	n.a.	n.a.	n.a.	0.00	0.00
13.620	7.750	0.263	1634.4	1634.4	8.484	3.792	3.11		Clay	100.0			7.33	1.07	n.a.	n.a.	0.97	0.673	n.a.	n.a.	n.a.	n.a.	0.00	0.00
13.780	7.710	0.256	1653.6	1653.6	8.325	3.722	3.12		Clay	100.0			7.29	1.07	n.a.	n.a.	0.97	0.677	n.a.	n.a.	n.a.	n.a.	0.00	0.00
13.940	7.560	0.257	1672.8	1672.8	8.039	3.818	3.13		Clay	100.0			7.15	1.06	n.a.	n.a.	0.97	0.680	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.110	7.460	0.246	1693.2	1693.2	7.812	3.714	3.14		Clay	100.0			7.05	1.06	n.a.	n.a.	0.97	0.684	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.270	7.610	0.250	1712.4	1712.4	7.888	3.699	3.13		Clay	100.0			7.19	1.06	n.a.	n.a.	0.97	0.687	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.440	7.690	0.245	1732.8	1732.8	7.876	3.596	3.13		Clay	100.0			7.27	1.05	n.a.	n.a.	0.97	0.690	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.600	7.600	0.256	1752.0	1752.0	7.676	3.800	3.15		Clay	100.0			7.18	1.05	n.a.	n.a.	0.97	0.694	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.760	7.620	0.244	1771.2	1771.2	7.604	3.617	3.14		Clay	100.0			7.20	1.05	n.a.	n.a.	0.97	0.697	n.a.	n.a.	n.a.	n.a.	0.00	0.00
14.930	7.490	0.247	1791.6	1791.6	7.361	3.741	3.16		Clay	100.0			7.08	1.04	n.a.	n.a.	0.97	0.700	n.a.	n.a.	n.a.	n.a.	0.00	0.00
15.090	7.560	0.226	1810.8	1810.8	7.350	3.390	3.14		Clay	100.0			7.15	1.04	n.a.	n.a.	0.97	0.703	n.a.	n.a.	n.a.	n.a.	0.00	0.00
15.260	7.610	0.214	1831.2	1831.2	7.311	3.198	3.13		Clay	100.0			7.19	1.04	n.a.	n.a.	0.97	0.706	n.a.	n.a.	n.a.	n.a.	0.00	0.00
15.420	7.570	0.223	1850.4	1850.4	7.182	3.348	3.14		Clay	100.0			7.16	1.04	n.a.	n.a.	0.97	0.709	n.a.	n.a.	n.a.	n.a.	0.00	0.00
15.580	8.070	0.271	1869.6	1869.6	7.633	3.794	3.15		Clay	100.0			7.63	1.03	n.a.	n.a.	0.97	0.712	n.a.	n.a.	n.a.	n.a.	0.00	0.00
15.750	8.760	0.205	1890.0	1890.0	8.270	2.623	3.03		Clay	100.0			8.28	1.03	n.a.	n.a.	0.97	0.715	n.a.	n.a.	n.a.	n.a.	0.00	0.00
15.910	8.760	0.189	1909.2	1909.2	8.177	2.415	3.02		Clay	100.0			8.28	1.03	n.a.	n.a.	0.96	0.718	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.080	8.040	0.167	1929.6	1929.6	7.333	2.360	3.05		Clay	100.0			7.60	1.02	n.a.	n.a.	0.96	0.721	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.240	8.050	0.193	1948.8	1948.8	7.261	2.722	3.09		Clay	100.0			7.61	1.02	n.a.	n.a.	0.96	0.724	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.400	7.860	0.265	1968.0	1968.0	6.988	3.860	3.19		Clay	100.0			7.43	1.02	n.a.	n.a.	0.96	0.726	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.570	8.660	0.314	1988.4	1988.4	7.711	4.090	3.17		Clay	100.0			8.19	1.02	n.a.	n.a.	0.96	0.729	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.730	9.250	0.336	2007.6	2007.6	8.215	4.073	3.14		Clay	100.0			8.74	1.01	n.a.	n.a.	0.96	0.732	n.a.	n.a.	n.a.	n.a.	0.00	0.00
16.900	9.360	0.290	2028.0	2028.0	8.231	3.475	3.10		Clay	100.0			8.85	1.01	n.a.	n.a.	0.96	0.734	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.060	8.700	0.239	2047.2	2047.2	7.499	3.110	3.11		Clay	100.0			8.22	1.01	n.a.	n.a.	0.96	0.737	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.220	8.090	0.196	2066.4	2066.4	6.830	2.780	3.12		Clay	100.0			7.65	1.01	n.a.	n.a.	0.96	0.739	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.390	7.670	0.184	2086.8	2086.8	6.351	2.769	3.14		Clay	100.0			7.25	1.00	n.a.	n.a.	0.96	0.742	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.550	7.680	0.184	2106.0	2106.0	6.293	2.775	3.15		Clay	100.0			7.26	1.00	n.a.	n.a.	0.96	0.744	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.720	7.570	0.167	2127.0	2119.5	6.140	2.567	3.14		Clay	100.0			7.16	1.00	n.a.	n.a.	0.96	0.747	n.a.	n.a.	n.a.	n.a.	0.00	0.00
17.880	7.170	0.146	2147.0	2129.5	5.726	2.387	3.15		Clay	100.0			6.78	1.00	n.a.	n.a.	0.96	0.749	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.040	7.130	0.138	2167.0	2139.5	5.652	2.279	3.14		Clay	100.0			6.74	1.00	n.a.	n.a.	0.96	0.752	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.210	7.400	0.151	2188.3	2150.2	5.865	2.395	3.14		Clay	100.0			6.99	1.00	n.a.	n.a.	0.96	0.754	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.370	7.660	0.064	2208.3	2160.2	6.070	0.978	2.95		Clay	98.7			7.24	0.99	n.a.	n.a.	0.96	0.756	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.540	7.650	0.199	2229.5	2170.8	6.021	3.048	3.18		Clay	100.0			7.23	0.99	n.a.	n.a.	0.96	0.759	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.700	8.110	0.267	2249.5	2180.9	6.406	3.825	3.22		Clay	100.0			7.67	0.99	n.a.	n.a.	0.96	0.761	n.a.	n.a.	n.a.	n.a.	0.00	0.00
18.860	13.830	0.426	2269.5	2190.9	11.589	3.355	2.97		Clay	100.0			13.07	0.99	n.a.	n.a.	0.95	0.763	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.030	13.450	0.341	2290.8	2201.5	11.178	2.772	2.94		Clay	98.0			12.71	0.99	n.a.	n.a.	0.95	0.765	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.190	10.900	0.264	2310.8	2211.5	8.813	2.713	3.02		Clay	100.0			10.30	0.99	n.a.	n.a.	0.95	0.767	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.360	9.370	0.216	2332.0	2222.2	7.384	2.637	3.08		Clay	100.0			8.86	0.99	n.a.	n.a.	0.95	0.769	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.520	8.540	0.208	2352.0	2232.2	6.598	2.825	3.13		Clay	100.0			8.07	0.99	n.a.	n.a.	0.95	0.771	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.690	8.340	0.189	2373.3	2242.8	6.379	2.638	3.13		Clay	100.0			7.88	0.98	n.a.	n.a.	0.95	0.773	n.a.	n.a.	n.a.	n.a.	0.00	0.00
19.850	8.230	0.197	2393.3	2252.9	6.244	2.797	3.15		Clay	100.0			7.78	0.98	n.a.	n.a.	0.95	0.775	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.010	8.380	0.167	2413.3	2262.9	6.340	2.321	3.10		Clay	100.0			7.92	0.98	n.a.	n.a.	0.95	0.777	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.180	8.380	0.125	2434.5	2273.5	6.301	1.740	3.04		Clay	100.0			7.92	0.98	n.a.	n.a.	0.95	0.779	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.340	8.440	0.174	2454.5	2283.5	6.317	2.410	3.11		Clay	100.0			7.98	0.98	n.a.	n.a.	0.95	0.781	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.510	9.370	0.390	2475.8	2294.2	7.089	4.793	3.24		Clay	100.0			8.86	0.98	n.a.	n.a.	0.95	0.783	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.670	13.750	0.679	2495.8	2304.2	10.852	5.427	3.12		Clay	100.0			13.00	0.98	n.a.	n.a.	0.95	0.785	n.a.	n.a.	n.a.	n.a.	0.00	0.00
20.830	19.460	0.636	2515.8	2314.2	15.731	3.495	2.88		Clay	93.2			18.39	0.98	n.a.	n.a.	0.95	0.787	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.000	13.920	0.383	2537.0	2324.8	10.884	3.027	2.97		Clay	100.0			13.16	0.98	n.a.	n.a.	0.95	0.788	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.160	9.550	0.269	2557.0	2334.9	7.085	3.257	3.14		Clay	100.0			9.03	0.97	n.a.	n.a.	0.95	0.790	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.330	8.280	0.199	2578.3	2345.5	5.961	2.847	3.17		Clay	100.0			7.83	0.97	n.a.	n.a.	0.95	0.792	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.490	7.910	0.200	2598.3	2355.5	5.613	3.031	3.21		Clay	100.0			7.48	0.97	n.a.	n.a.	0.95	0.794	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.650	8.440	0.191	2618.3	2365.5	6.029	2.684	3.15		Clay	100.0			7.98	0.97	n.a.	n.a.	0.95	0.795	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.820	8.620	0.167	2639.5	2376.2	6.145	2.283	3.11		Clay	100.0			8.15	0.97	n.a.	n.a.	0.94	0.797	n.a.	n.a.	n.a.	n.a.	0.00	0.00
21.980	7.950	0.194	2659.5	2386.2	5.549	2.923	3.20		Clay	100.0			7.51	0.97	n.a.	n.a.	0.94	0.799	n.a.	n.a.	n.a.	n.a.	0.00	0.00
22.150	7.890	0.252	2680.8	2396.8	5.465	3.840	3.27		Clay	100.0			7.46	0.97	n.a.	n.a.	0.94	0.800	n.a.	n.a.	n.a.	n.a.	0.00	0.00
22.310	8.530	0.294	2700.8	2406.8	5.966	4.096	3.26		Clay	100.0			8.06	0.97	n.a.	n.a.	0.94	0.802	n.a.	n.a.	n.a.	n.a.	0.00	0.00
22.470	8.550	0.278	2720.8	2416.9	5.950	3.868	3.25		Clay	100.0			8.08	0.97	n.a.	n.a.	0.94	0.803	n.a.	n.a.	n.a.	n.a.	0.00	0.00
22.640	8.260	0.249	2742.0	2427.5	5.676	3.609	3.25		Clay	100.0			7.81	0.96	n.a.	n.a.	0.94	0.805	n.a.	n.a.	n.a.	n.a.	0.00	0.00
22.800	8.010	0.206	2762.0	2437.5	5.439	3.103	3.23		Clay	100.0			7.57	0.96	n.a.	n.a.	0.94	0.806	n.a.	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No.	4

PGA (A_{max})	1.00

Total Settlement:	0.19	(Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	$CRR_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
22.970	7.710	0.185	2783.3	2448.2	5.162	2.920	3.23		Clay	100.0			7.29	0.96	n.a.	n.a.	0.94	0.808	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.130	7.430	0.168	2803.3	2458.2	4.905	2.790	3.24		Clay	100.0			7.02	0.96	n.a.	n.a.	0.94	0.809	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.290	7.460	0.152	2823.3	2468.2	4.901	2.516	3.22		Clay	100.0			7.05	0.96	n.a.	n.a.	0.94	0.811	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.460	7.300	0.136	2844.5	2478.8	4.742	2.309	3.21		Clay	100.0			6.90	0.96	n.a.	n.a.	0.94	0.812	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.620	7.100	0.112	2864.5	2488.9	4.555	1.980	3.19		Clay	100.0			6.71	0.96	n.a.	n.a.	0.94	0.814	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.790	7.080	0.103	2885.8	2499.5	4.511	1.818	3.18		Clay	100.0			6.69	0.96	n.a.	n.a.	0.94	0.815	n.a.	n.a.	n.a.	n.a.	0.00	0.00
23.950	7.270	0.113	2905.8	2509.5	4.636	1.949	3.18		Clay	100.0			6.87	0.96	n.a.	n.a.	0.94	0.816	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.110	7.350	0.117	2925.8	2519.5	4.673	1.992	3.19		Clay	100.0			6.95	0.95	n.a.	n.a.	0.94	0.818	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.280	7.210	0.139	2947.0	2530.2	4.534	2.423	3.24		Clay	100.0			6.81	0.95	n.a.	n.a.	0.94	0.819	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.440	7.550	0.131	2967.0	2540.2	4.776	2.153	3.19		Clay	100.0			7.14	0.95	n.a.	n.a.	0.93	0.820	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.610	8.430	0.131	2988.3	2550.8	5.438	1.893	3.12		Clay	100.0			7.97	0.95	n.a.	n.a.	0.93	0.821	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.770	9.720	0.219	3008.3	2560.8	6.417	2.662	3.13		Clay	100.0			9.19	0.95	n.a.	n.a.	0.93	0.823	n.a.	n.a.	n.a.	n.a.	0.00	0.00
24.930	11.540	0.287	3028.3	2570.9	7.800	2.860	3.08		Clay	100.0			10.91	0.95	n.a.	n.a.	0.93	0.824	n.a.	n.a.	n.a.	n.a.	0.00	0.00
25.100	17.440	0.719	3049.5	2581.5	12.330	4.515	3.03		Clay	100.0			16.48	0.95	n.a.	n.a.	0.93	0.825	n.a.	n.a.	n.a.	n.a.	0.00	0.00
25.260	22.030	1.078	3069.5	2591.5	15.817	5.262	2.99		Clay	100.0			20.82	0.95	n.a.	n.a.	0.93	0.826	n.a.	n.a.	n.a.	n.a.	0.00	0.00
25.430	30.420	1.386	3090.8	2602.2	22.193	4.800	2.85		Clay	91.0			28.75	0.95	n.a.	n.a.	0.93	0.827	n.a.	n.a.	n.a.	n.a.	0.00	0.00
25.590	50.980	1.475	3110.8	2612.2	42.045	2.984	2.51		Sand	63.5		1.8	86.73	0.92	79.72	151.86	0.93	0.829	0.966	0.301	0.492	0.59	0.02	0.04
25.750	50.050	1.116	3130.8	2622.2	41.167	2.301	2.44		Sand	58.1	48.19	1.8	86.74	0.92	79.55	149.92	0.93	0.830	0.966	0.288	0.464	0.56	0.02	0.04
25.920	32.660	0.611	3152.0	2632.8	26.339	1.966	2.55		Sand	66.8	48.19	1.8	86.74	0.92	79.50	152.48	0.93	0.831	0.964	0.306	0.501	0.60	0.02	0.04
26.080	18.240	0.394	3172.0	2642.8	12.603	2.364	2.86		Clay	91.4			17.24	0.94	n.a.	n.a.	0.93	0.832	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.250	14.100	0.363	3193.3	2653.5	9.424	2.900	3.01		Clay	100.0			13.33	0.94	n.a.	n.a.	0.93	0.833	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.410	12.680	0.373	3213.3	2663.5	8.315	3.372	3.09		Clay	100.0			#REF!	0.94	n.a.	n.a.	0.93	0.834	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.570	14.020	0.449	3233.3	2673.5	9.279	3.617	3.07		Clay	100.0			13.25	0.94	n.a.	n.a.	0.93	0.835	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.740	14.930	0.492	3254.5	2684.2	9.912	3.697	3.05		Clay	100.0			14.11	0.94	n.a.	n.a.	0.93	0.836	n.a.	n.a.	n.a.	n.a.	0.00	0.00
26.900	15.890	0.589	3274.5	2694.2	10.580	4.133	3.06		Clay	100.0			15.02	0.94	n.a.	n.a.	0.93	0.837	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.070	16.780	0.672	3295.8	2704.8	11.189	4.438	3.06		Clay	100.0			15.86	0.94	n.a.	n.a.	0.92	0.838	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.230	17.810	0.732	3315.8	2714.8	11.899	4.533	3.04		Clay	100.0			16.83	0.94	n.a.	n.a.	0.92	0.839	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.400	17.920	0.754	3337.0	2725.5	11.926	4.642	3.05		Clay	100.0			16.94	0.94	n.a.	n.a.	0.92	0.840	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.560	18.000	0.754	3357.0	2735.5	11.933	4.620	3.05		Clay	100.0			17.01	0.93	n.a.	n.a.	0.92	0.841	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.720	18.470	0.763	3377.0	2745.5	12.225	4.549	3.03		Clay	100.0			17.46	0.93	n.a.	n.a.	0.92	0.842	n.a.	n.a.	n.a.	n.a.	0.00	0.00
27.890	17.810	0.736	3398.3	2756.2	11.691	4.568	3.05		Clay	100.0			16.83	0.93	n.a.	n.a.	0.92	0.843	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.050	17.200	0.676	3418.3	2766.2	11.200	4.364	3.05		Clay	100.0			16.26	0.93	n.a.	n.a.	0.92	0.844	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.220	16.870	0.647	3439.5	2776.8	10.912	4.272	3.06		Clay	100.0			15.95	0.93	n.a.	n.a.	0.92	0.845	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.380	16.450	0.665	3459.5	2786.8	10.564	4.515	3.08		Clay	100.0			15.55	0.93	n.a.	n.a.	0.92	0.845	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.540	16.040	0.674	3479.5	2796.8	10.226	4.715	3.10		Clay	100.0			15.16	0.93	n.a.	n.a.	0.92	0.846	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.710	14.820	0.622	3500.8	2807.5	9.311	4.761	3.14		Clay	100.0			14.01	0.93	n.a.	n.a.	0.92	0.847	n.a.	n.a.	n.a.	n.a.	0.00	0.00
28.870	12.460	0.509	3520.8	2817.5	7.595	4.759	3.21		Clay	100.0			11.78	0.93	n.a.	n.a.	0.92	0.848	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.040	11.540	0.444	3542.0	2828.1	6.908	4.548	3.23		Clay	100.0			10.91	0.93	n.a.	n.a.	0.92	0.849	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.200	12.120	0.473	3562.0	2838.2	7.286	4.579	3.22		Clay	100.0			11.46	0.93	n.a.	n.a.	0.92	0.850	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.360	12.420	0.568	3582.0	2848.2	7.464	5.343	3.25		Clay	100.0			11.74	0.92	n.a.	n.a.	0.92	0.850	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.530	11.920	0.602	3603.3	2858.8	7.079	5.949	3.29		Clay	100.0			11.27	0.92	n.a.	n.a.	0.91	0.851	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.690	11.170	0.512	3623.3	2868.8	6.524	5.474	3.30		Clay	100.0			10.56	0.92	n.a.	n.a.	0.91	0.852	n.a.	n.a.	n.a.	n.a.	0.00	0.00
29.860	10.550	0.386	3644.5	2879.5	6.062	4.424	3.27		Clay	100.0			9.97	0.92	n.a.	n.a.	0.91	0.853	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.020	10.120	0.340	3664.5	2889.5	5.736	4.102	3.27		Clay	100.0			9.57	0.92	n.a.	n.a.	0.91	0.853	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.180	10.340	0.335	3684.5	2899.5	5.862	3.940	3.26		Clay	100.0			9.77	0.92	n.a.	n.a.	0.91	0.854	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.350	10.430	0.329	3705.8	2910.2	5.895	3.831	3.25		Clay	100.0			9.86	0.92	n.a.	n.a.	0.91	0.855	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.510	10.110	0.264	3725.8	2920.2	5.648	3.205	3.22		Clay	100.0			9.56	0.92	n.a.	n.a.	0.91	0.855	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.680	10.160	0.207	3747.0	2930.8	5.655	2.500	3.16		Clay	100.0			9.60	0.92	n.a.	n.a.	0.91	0.856	n.a.	n.a.	n.a.	n.a.	0.00	0.00
30.840	10.350	0.208	3767.0	2940.8	5.758	2.458	3.15		Clay	100.0			9.78	0.92	n.a.	n.a.	0.91	0.857	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.000	10.850	0.231	3787.0	2950.8	6.070	2.576	3.14		Clay	100.0			10.26	0.92	n.a.	n.a.	0.91	0.857	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.170	11.670	0.242	3808.3	2961.5	6.595	2.480	3.10		Clay	100.0			11.03	0.92	n.a.	n.a.	0.91	0.858	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.330	10.940	0.241	3828.3	2971.5	6.075	2.671	3.15		Clay	100.0			10.34	0.91	n.a.	n.a.	0.91	0.858	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.500	9.470	0.159	3849.5	2982.1	5.060	2.103	3.17		Clay	100.0			8.95	0.91	n.a.	n.a.	0.91	0.859	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.660	8.710	0.132	3869.5	2992.2	4.529	1.954	3.19		Clay	100.0			8.23	0.91	n.a.	n.a.	0.91	0.860	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.820	8.040	0.123	3889.5	3002.2	4.061	2.023	3.24		Clay	100.0			7.60	0.91	n.a.	n.a.	0.91	0.860	n.a.	n.a.	n.a.	n.a.	0.00	0.00
31.990	7.910	0.112	3910.8	3012.8	3.953	1.888	3.24		Clay	100.0			7.48	0.91	n.a.	n.a.	0.90	0.861	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.150	8.040	0.113	3930.8	3022.8	4.019	1.857	3.23		Clay	100.0			7.60	0.91	n.a.	n.a.	0.90	0.861	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.320	7.910	0.133	3952.0	3033.5	3.912	2.235	3.28		Clay	100.0			7.48	0.91	n.a.	n.a.	0.90	0.862	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.480	8.310	0.155	3972.0	3043.5	4.156	2.454	3.27		Clay	100.0			7.85	0.91	n.a.	n.a.	0.90	0.862	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.640	9.170	0.180	3992.0	3053.5	4.699	2.508	3.23		Clay	100.0			8.67	0.91	n.a.	n.a.	0.90	0.863	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.810	9.580	0.202	4013.3	3064.1	4.943	2.665	3.23		Clay	100.0			9.05	0.91	n.a.	n.a.	0.90	0.863	n.a.	n.a.	n.a.	n.a.	0.00	0.00
32.970	10.430	0.218	4033.3	3074.2	5.474	2.586	3.18		Clay	100.0			9.86	0.91	n.a.	n.a.	0.90	0.864	n.a.	n.a.	n.a.	n.a.	0.00	0.00
33.140	11.550	0.224	4054.5	3084.8	6.174	2.349	3.12		Clay	100.0			10.92	0.91	n.a.	n.a.	0.90	0.864	n.a.	n.a.	n.a.	n.a.	0.00	0.00
33.300	12.410	0.245	4074.5	3094.8	6.703	2.366	3.09		Clay	100.0			11.73	0.90	n.a.	n.a.	0.90	0.865	n.a.	n.a.	n.a.	n.a.	0.00	0.00
33.460	11.820	0.276	4094.5	3104.8	6.295	2.823	3.15		Clay	100.0			11.17	0.90	n.a.	n.a.	0.90	0.865	n.a.	n.a.	n.a.	n.a.	0.00	0.00
33.630	11.890	0.320	4115.8	3115.5	6.312	3.250	3.18		Clay	100.0			11.24	0.90	n.a.	n.a.	0.90	0.866	n.a.	n.a.	n.a.	n.a.	0.00	0.00
33.790	13.650	0.387	4135.8	3125.5	7.411	3.342	3.13		Clay	100.0			12.90	0.90	n.a.	n.a.	0.90	0.866	n.a.	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 4

PGA (A_{max}) 1.00

Total Settlement: 0.19 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	$CRR_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
33.960	14.400	0.428	4157.0	3136.1	7.858	3.471	3.12		Clay	100.0			13.61	0.90	n.a.	n.a.	0.90	0.867	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.120	15.690	0.471	4177.0	3146.2	8.646	3.461	3.08		Clay	100.0			14.83	0.90	n.a.	n.a.	0.90	0.867	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.280	15.870	0.528	4197.0	3156.2	8.727	3.831	3.11		Clay	100.0			15.00	0.90	n.a.	n.a.	0.90	0.867	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.450	16.620	0.517	4218.3	3166.8	9.164	3.564	3.07		Clay	100.0			15.71	0.90	n.a.	n.a.	0.89	0.868	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.610	17.100	0.556	4238.3	3176.8	9.431	3.713	3.07		Clay	100.0			16.16	0.90	n.a.	n.a.	0.89	0.868	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.780	17.720	0.531	4259.5	3187.5	9.782	3.407	3.04		Clay	100.0			16.75	0.90	n.a.	n.a.	0.89	0.869	n.a.	n.a.	n.a.	n.a.	0.00	0.00
34.940	15.200	0.425	4279.5	3197.5	8.169	3.252	3.09		Clay	100.0			14.37	0.90	n.a.	n.a.	0.89	0.869	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.100	14.740	0.405	4299.5	3207.5	7.851	3.218	3.10		Clay	100.0			13.93	0.90	n.a.	n.a.	0.89	0.869	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.270	14.540	0.399	4320.8	3218.1	7.694	3.219	3.11		Clay	100.0			13.74	0.90	n.a.	n.a.	0.89	0.870	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.430	14.630	0.382	4340.8	3228.2	7.719	3.068	3.10		Clay	100.0			13.83	0.89	n.a.	n.a.	0.89	0.870	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.600	14.640	0.357	4362.0	3238.8	7.694	2.866	3.08		Clay	100.0			13.84	0.89	n.a.	n.a.	0.89	0.870	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.760	13.910	0.371	4382.0	3248.8	7.214	3.162	3.13		Clay	100.0			13.15	0.89	n.a.	n.a.	0.89	0.871	n.a.	n.a.	n.a.	n.a.	0.00	0.00
35.930	12.840	0.355	4403.3	3259.5	6.528	3.332	3.18		Clay	100.0			12.14	0.89	n.a.	n.a.	0.89	0.871	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.090	12.390	0.345	4423.3	3269.5	6.226	3.389	3.20		Clay	100.0			11.71	0.89	n.a.	n.a.	0.89	0.871	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.250	12.160	0.332	4443.3	3279.5	6.061	3.340	3.20		Clay	100.0			11.49	0.89	n.a.	n.a.	0.89	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.420	12.080	0.290	4464.5	3290.1	5.986	2.941	3.18		Clay	100.0			11.42	0.89	n.a.	n.a.	0.89	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.580	11.940	0.270	4484.5	3300.1	5.877	2.782	3.17		Clay	100.0			11.29	0.89	n.a.	n.a.	0.89	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.750	11.850	0.269	4505.8	3310.8	5.797	2.801	3.18		Clay	100.0			11.20	0.89	n.a.	n.a.	0.89	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
36.910	11.890	0.262	4525.8	3320.8	5.798	2.716	3.17		Clay	100.0			11.24	0.89	n.a.	n.a.	0.88	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.070	12.050	0.275	4545.8	3330.8	5.871	2.811	3.18		Clay	100.0			11.39	0.89	n.a.	n.a.	0.88	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.240	12.440	0.286	4567.0	3341.5	6.079	2.815	3.16		Clay	100.0			11.76	0.89	n.a.	n.a.	0.88	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.400	12.740	0.340	4587.0	3351.5	6.234	3.250	3.19		Clay	100.0			12.04	0.89	n.a.	n.a.	0.88	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.570	13.250	0.332	4608.3	3362.1	6.511	3.037	3.16		Clay	100.0			12.52	0.89	n.a.	n.a.	0.88	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.730	13.840	0.237	4628.3	3372.1	6.836	2.057	3.05		Clay	100.0			13.08	0.88	n.a.	n.a.	0.88	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
37.890	13.930	0.284	4648.3	3382.2	6.863	2.450	3.09		Clay	100.0			13.17	0.88	n.a.	n.a.	0.88	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.060	13.700	0.271	4669.5	3392.8	6.700	2.387	3.09		Clay	100.0			12.95	0.88	n.a.	n.a.	0.88	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.220	16.080	0.305	4689.5	3402.8	8.073	2.218	3.00		Clay	100.0			15.20	0.88	n.a.	n.a.	0.88	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.390	15.730	0.341	4710.8	3413.5	7.836	2.547	3.05		Clay	100.0			14.87	0.88	n.a.	n.a.	0.88	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.550	15.900	0.395	4730.8	3423.5	7.907	2.918	3.07		Clay	100.0			15.03	0.88	n.a.	n.a.	0.88	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.710	17.240	0.326	4750.8	3433.5	8.659	2.194	2.98		Clay	100.0			16.29	0.88	n.a.	n.a.	0.88	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
38.880	17.250	0.436	4772.0	3444.1	8.632	2.931	3.04		Clay	100.0			16.30	0.88	n.a.	n.a.	0.88	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.040	16.090	0.558	4792.0	3454.1	7.929	4.078	3.16		Clay	100.0			15.21	0.88	n.a.	n.a.	0.88	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.210	16.220	0.604	4813.3	3464.8	7.974	4.374	3.17		Clay	100.0			15.33	0.88	n.a.	n.a.	0.87	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.370	15.330	0.553	4833.3	3474.8	7.433	4.281	3.19		Clay	100.0			14.49	0.88	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.530	14.290	0.418	4853.3	3484.8	6.809	3.526	3.17		Clay	100.0			13.51	0.88	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.700	14.060	0.325	4874.5	3495.5	6.650	2.795	3.13		Clay	100.0			13.29	0.88	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
39.860	13.670	0.258	4894.5	3505.5	6.403	2.302	3.10		Clay	100.0			12.92	0.88	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.030	12.900	0.204	4915.8	3516.1	5.940	1.952	3.09		Clay	100.0			12.19	0.87	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.190	12.300	0.172	4935.8	3526.1	5.577	1.746	3.09		Clay	100.0			11.63	0.87	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.350	11.510	0.126	4955.8	3536.2	5.108	1.389	3.08		Clay	100.0			10.88	0.87	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.520	12.230	0.145	4977.0	3546.8	5.493	1.488	3.06		Clay	100.0			11.56	0.87	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.680	12.780	0.192	4997.0	3556.8	5.781	1.871	3.09		Clay	100.0			12.08	0.87	n.a.	n.a.	0.87	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
40.850	15.000	0.347	5018.3	3567.5	7.003	2.776	3.11		Clay	100.0			14.18	0.87	n.a.	n.a.	0.87	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.010	19.760	0.402	5038.3	3577.5	9.639	2.331	2.95		Clay	99.0			18.68	0.87	n.a.	n.a.	0.87	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.170	22.080	0.502	5058.3	3587.5	10.899	2.567	2.93		Clay	97.2			20.87	0.87	n.a.	n.a.	0.87	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.340	24.170	0.525	5079.5	3598.1	12.023	2.427	2.88		Clay	93.3			22.84	0.87	n.a.	n.a.	0.87	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.500	25.210	0.628	5099.5	3608.1	12.561	2.773	2.90		Clay	94.7			23.83	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.670	24.960	0.766	5120.8	3618.8	12.380	3.418	2.95		Clay	99.3			23.59	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.830	26.440	0.965	5140.8	3628.8	13.156	4.042	2.98		Clay	100.0			24.99	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
41.990	27.950	1.096	5160.8	3638.8	13.944	4.319	2.98		Clay	100.0			26.42	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.160	28.350	1.196	5182.0	3649.5	14.117	4.642	2.99		Clay	100.0			26.80	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.320	29.030	1.366	5202.0	3659.5	14.444	5.167	3.01		Clay	100.0			27.44	0.87	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.490	30.760	1.421	5223.3	3670.1	15.339	5.048	2.99		Clay	100.0			29.07	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.650	33.140	1.588	5243.3	3680.1	16.585	5.203	2.97		Clay	100.0			31.32	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.810	34.710	1.553	5263.3	3690.1	17.386	4.841	2.93		Clay	97.6			32.81	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
42.980	36.900	1.568	5284.5	3700.8	18.514	4.578	2.90		Clay	94.7			34.88	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.140	39.040	1.523	5304.5	3710.8	19.612	4.184	2.85		Clay	91.1			36.90	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.310	41.080	1.493	5325.8	3721.4	20.646	3.887	2.81		Clay	88.1			38.83	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.470	40.210	1.419	5345.8	3731.5	20.119	3.780	2.81		Clay	88.2			38.01	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.640	36.590	1.329	5367.0	3742.1	18.122	3.920	2.86		Clay	91.8			34.58	0.86	n.a.	n.a.	0.86	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.800	34.840	1.401	5387.0	3752.1	17.135	4.357	2.91		Clay	95.6			32.93	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
43.960	34.250	1.369	5407.0	3762.1	16.771	4.341	2.91		Clay	96.1			32.37	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
44.130	33.040	1.347	5428.3	3772.8	16.076	4.441	2.93		Clay	97.8			31.23	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
44.290	29.380	1.180	5448.3	3782.8	14.093	4.428	2.98		Clay	100.0			27.77	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
44.460	27.360	1.147	5469.5	3793.4	12.983	4.657	3.02		Clay	100.0			25.86	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
44.620	25.160	0.964	5489.5	3803.5	11.787	4.301	3.03		Clay	100.0			23.78	0.86	n.a.	n.a.	0.85	0.877	n.a.	n.a.	n.a.	n.a.	0.00	0.00
44.780	23.200	0.797	5509.5	3813.5	10.723	3.896	3.04		Clay	100.0			21.93	0.86	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00

CORNERSTONE EARTH GROUP

CPT No. 4

PGA (A_{max}) 1.00

Total Settlement: 0.19 (Inches)

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Depth (ft)	q_c (tsf)	f_s (tsf)	σ_{vc} (psf)	Insitu σ'_{vc} (psf)	Q	F (%)	I_c	Layer "Plastic" PI > 7	Flag Soil Type	Fines (%)	q_{cN} near interfaces (soft layer)	Thin Layer Factor (K_H)	Interpreted q_{cN}	C_N	q_{c1N}	q_{c1N-CS}	Stress Reduction Coeff, r_d	CSR	K_σ for Sand	$CRR_{M=7.5,\sigma'vc = 1 atm}$	CRR	Factor of Safety (CRR/CSR)	Vertical Strain ε_v	Settlement (Inches)
44.950	21.370	0.655	5530.8	3824.1	9.730	3.520	3.05		Clay	100.0			20.20	0.86	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.110	19.430	0.546	5550.8	3834.1	8.688	3.280	3.07		Clay	100.0			18.36	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.280	18.530	0.504	5572.0	3844.8	8.190	3.200	3.08		Clay	100.0			17.51	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.440	18.500	0.516	5592.0	3854.8	8.148	3.286	3.09		Clay	100.0			17.49	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.600	18.490	0.578	5612.0	3864.8	8.116	3.687	3.12		Clay	100.0			17.48	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.770	18.870	0.571	5633.3	3875.4	8.285	3.559	3.11		Clay	100.0			17.84	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
45.930	18.830	0.567	5653.3	3885.5	8.238	3.545	3.11		Clay	100.0			17.80	0.85	n.a.	n.a.	0.85	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.100	18.420	0.514	5674.5	3896.1	7.999	3.300	3.10		Clay	100.0			17.41	0.85	n.a.	n.a.	0.84	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.260	18.160	0.515	5694.5	3906.1	7.840	3.363	3.11		Clay	100.0			17.16	0.85	n.a.	n.a.	0.84	0.876	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.420	18.870	0.514	5714.5	3916.1	8.178	3.207	3.09		Clay	100.0			17.84	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.590	19.190	0.554	5735.8	3926.8	8.313	3.394	3.09		Clay	100.0			18.14	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.750	19.410	0.586	5755.8	3936.8	8.399	3.546	3.10		Clay	100.0			18.35	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
46.920	19.740	0.573	5777.0	3947.4	8.538	3.401	3.08		Clay	100.0			18.66	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.080	18.570	0.506	5797.0	3957.4	7.920	3.231	3.10		Clay	100.0			17.55	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.240	16.680	0.418	5817.0	3967.5	6.942	3.032	3.13		Clay	100.0			15.77	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.410	15.890	0.360	5838.3	3978.1	6.521	2.778	3.13		Clay	100.0			15.02	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.570	16.940	0.398	5858.3	3988.1	7.026	2.840	3.11		Clay	100.0			16.01	0.85	n.a.	n.a.	0.84	0.875	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.740	16.880	0.377	5879.5	3998.8	6.972	2.702	3.10		Clay	100.0			15.95	0.85	n.a.	n.a.	0.84	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
47.900	17.690	0.401	5899.5	4008.8	7.354	2.720	3.08		Clay	100.0			16.72	0.84	n.a.	n.a.	0.84	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.060	17.310	0.395	5919.5	4018.8	7.142	2.755	3.10		Clay	100.0			16.36	0.84	n.a.	n.a.	0.84	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.230	17.380	0.361	5940.8	4029.4	7.152	2.505	3.08		Clay	100.0			16.43	0.84	n.a.	n.a.	0.84	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.390	17.210	0.325	5960.8	4039.5	7.045	2.282	3.06		Clay	100.0			16.27	0.84	n.a.	n.a.	0.83	0.874	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.560	16.840	0.410	5982.0	4050.1	6.839	2.963	3.13		Clay	100.0			15.92	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.720	17.170	1.212	6002.0	4060.1	6.980	8.557	3.40		Clay	100.0			16.23	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
48.880	20.300	1.629	6022.0	4070.1	8.496	9.423	3.36		Clay	100.0			19.19	0.84	n.a.	n.a.	0.83	0.873	n.a.	n.a.	n.a.	n.a.	0.00	0.00
49.050	71.420	1.648	6043.3	4080.8	46.553	2.410	2.41		Sand	55.9	97.98	1.8	176.36	0.83	146.07	233.92	0.83	0.873	0.803	23.570	41.637	47.70	0.00	0.00
49.210	103.660	1.095	6063.3	4090.8	68.405	1.088	2.06		Sand	28.0		1.8	176.36	0.81	142.30	203.04	0.83	0.873	0.820	2.253	4.066	4.66	0.00	0.00
49.380	89.650	0.916	6084.5	4101.4	58.798	1.058	2.11		Sand	31.6	97.98	1.8	176.36	0.81	143.00	209.67	0.83	0.873	0.804	3.409	6.034	6.92	0.00	0.00
49.540	64.820	0.593	6104.5	4111.4	41.883	0.960	2.20		Sand	39.4	97.98	1.8	176.36	0.82	144.17	220.29	0.83	0.872	0.801	7.293	12.848	14.73	0.00	0.00
49.700	36.860	0.571	6124.5	4121.5	16.401	1.690	2.68		Clay	77.4			34.84	0.84	n.a.	n.a.	0.83	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
49.870	21.680	0.639	6145.8	4132.1	9.006	3.436	3.07		Clay	100.0			20.49	0.84	n.a.	n.a.	0.83	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00
50.030	28.050	0.695	6165.8	4142.1	12.055	2.785	2.91		Clay	95.9			26.51	0.84	n.a.	n.a.	0.83	0.872	n.a.	n.a.	n.a.	n.a.	0.00	0.00

Appendix H

Phase I Environmental Site Assessment

Phase I Environmental Site Assessment

14143-14273 Washington Avenue
San Leandro, California 94578

November 23,, 2021

Prepared for:

First Industrial Realty Trust, Inc.
One North Wacker Drive, Suite 4200
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Prepared by:

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Executive Summary

First Industrial Realty Trust, Inc. (FIRT, the User) retained Roux Associates, Inc. (Roux) to perform a Phase I Environmental Site Assessment (ESA) of the property located at 14143-14273 Washington Avenue, San Leandro, California 94578, Assessor's Parcel Numbers (APNs) 77B-1222-3-3; 77B-1222-4-3; 77B-1222-5-3; 77B-1222-6-18; 77B-1222-6-17; 77B-1222-6-15; and 77B-1222-6-19 (the Site). Roux performed this Phase I ESA in general accordance with the American Society for Testing Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E1527-13) in an effort to identify, to the extent feasible, the presence of recognized environmental conditions (RECs) with respect to the Site as defined in ASTM E1527-13. Exceptions to, or deletions from, this practice are described in Section 1.5 of this report.

The Site consists of seven separate and adjoining parcels, provided above, totaling approximately 3.48 acres, located on the west side of Washington Avenue in a predominately commercial/industrial area with a few single-family residences of San Leandro, California. At the time of the Site reconnaissance, the majority of the Site, 14273 Washington Avenue, was vacant. Site improvements include one approximately 6,000 square-foot building (Building A) that contains garage and office space, one approximately 1,000 square-foot building (Building B) formerly used as a recreational vehicle (RV) washing area, two residential structures (addresses 14143 and 14173 Washington Avenue) and several simple metal roof structures located behind 14143 Washington Avenue and utilized for a custom ironworks operation. The elevation of the Site is approximately 39 feet above mean sea level (msl) and is graded to drain at a gentle slope, oriented southeast. Prior to current improvements, the Site was historically developed for residential and possibly limited agricultural use and was then occupied by an equipment rental service and bar/lounge.

On February 9, February 12, and August 11, 2021, Roux visually assessed the Site during the site reconnaissance for potential RECs, including, but not limited to, potential underground storage tanks (USTs), aboveground storage tanks (ASTs), polychlorinated biphenyl (PCB)-containing equipment, hazardous materials storage or handling areas, containerized or bulk wastes, and visual indications of impacted soil.

Roux also performed a records review in an effort to identify RECs in connection with the Site. This records review addressed the Site and surrounding properties. Roux reviewed commercially available records associated with the Site and nearby properties to assess potential concerns associated with the migration of hazardous substances. The records review also included reasonably ascertainable historical data, which can be helpful in identifying the past uses of the Site and surrounding areas, as it may relate to the environmental condition of the Site.

Roux performed interviews and/or file reviews with various government agencies and other parties with possible knowledge of the Site and surrounding properties in an effort to identify current and past uses of the Site and surrounding areas, as they may relate to the environmental condition of the Site.

ASTM E 1527-13 defines a Recognized Environmental Condition (REC) 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."

A Controlled Recognized Environmental Condition (cREC) 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, 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 (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)."

And a Historical Recognized Environmental Condition (hREC) 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). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a *recognized* environmental condition at the time the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition."

The term recognized environmental condition is not intended to include de minimis conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

This Executive Summary provides a brief overview of the findings of this Phase I ESA. Although the Executive Summary is an integral part of a report, it does not substitute for reading the entire report or the appended or referenced documents in order to fully understand the findings and potential environmental concerns associated with the Site.

Roux did not identify known or suspected RECs or cRECs in connection with the current and historical operations at the Site.

Based on the information obtained through the performance of this ESA, as well as March 2021 Limited Phase II Subsurface Investigation (Appendix H) activities, Roux identified the following hRECs in connection with the current and historical operations at the Site or adjacent properties. To the extent possible, the locations of the hRECs are shown in Figure 2. To avoid confusion, all RECs, and hRECs are numbered sequentially.

hREC 1 – Custom Ironwork Facility. Located in the western half of Parcel 1, at the address 14143-A Washington Avenue, is the facility Zermeno's Custom Ironworks (Building E on Figure 2). Consisting of several simple metal structures, this facility primarily produces iron gates and fences. According to Mr. Al Zermano, owner and resident at 14143 Washington Avenue, he has been conducting ironwork at the Site for over 20 years. The flooring, both inside and outside the buildings, consisted of a combination of concrete flooring and bare soil. Roux observed miscellaneous paints, cleaners, and lubricating/cutting

oils, all in consumer commodity sized containers throughout the facility. Housekeeping was observed to be generally poor in regard to secondary containment and proper storage of chemicals. Also observed were multiple saws, compressed air cylinders of various sizes, cables, multiple inactive compressors, stock metal, and other miscellaneous tools and equipment. Considering the long term (20+ years) operation that has likely included the storage and use of lubricants, oils, paints and potential solvents, in addition to the relatively poor housekeeping, bare soil, drum storage, vehicle storage and maintenance, this facility was determined to pose a potential concern in relation to the Site. The March 2021 Limited Phase II Subsurface Investigation addressed this area and the data did not indicate subsurface contamination resulting from this item; therefore, this facility is considered an hREC in the context of this Phase I ESA

hREC 2 – Oil-water Separator. Roux observed a below-ground oil-water separator located south of Building B. It is estimated that this feature was installed along with Building B around 2007. Wastewater from the former wash station in Building B likely entered a floor drain in the wash bay and was discharged into the oil-water separator prior to being discharged into the municipal sewer system. The oil-water separator was not opened for inspection at the time of the Site reconnaissance and no significant staining was observed around the feature. Historical waste fluids including motor vehicle fuels, new and used engine oil, hydraulic oil, coolant, battery acid, power steering fluid, and other fluids may have been discharged into the oil-water separator during washing activities. Wastewater processed in the oil-water separator would potentially be impacted with petroleum-related products and volatile organic compounds (VOCs), and therefore there is a reasonable likelihood that a release could have occurred. The March 2021 Limited Phase II Subsurface Investigation addressed this area and did not indicate subsurface contamination resulting from this item; therefore, this facility is considered an hREC in the context of this Phase I ESA

hREC 3 – Former UST without Regulatory Closure. Of the four former USTs known to have existed on Site, reviewed records indicated that three of the four USTs received regulatory closure. One UST, a reported 550-gallon waste oil tank located along the southern boundary behind Building A, was removed in 1998 under the oversight of the San Leandro Fire Department (SLFD). Confirmation soil samples from this excavation were non-detect for TPH, BTEX, MTBE and halogenated VOCs and below applicable screening levels for metals. Roux did not review a formal closure letter from the SLFD or the San Francisco Bay Regional Water Quality Control Board (SFB RWQCB) for this tank; however, the Underground Tank Removal letter prepared by Quarle stated that the confirmation soil results were faxed to Mr. Carl Buche of the SLFD and, “Mr. Buche gave verbal authorization for the excavation to be backfilled” (Quarle, 1998). The March 2021 Limited Phase II Subsurface Investigation addressed this area and did not indicate subsurface contamination resulting from this item; therefore, this facility is considered an hREC in the context of this Phase I ESA

hREC 4 – Former USTs with Regulatory Closure. Three USTs, including two 1,000-gallon diesel tanks and one 5,000-gallon gasoline tank, were removed from the Site in 1991 and 1992. These USTs were utilized by the former San Leandro and United Rentals operations, likely to fill rental equipment and fleet vehicles. Historical records reviewed showed that these three USTs, referred to as Tanks #1, #2 and #3 in this Report, were removed under the oversight of the SLFD, and subsequently received regulatory closure from the SLFD and the SFB RWQCB in 1997. Upon removal of Tank #1 in 1991, contaminated soil was excavated to a depth of about 20 feet bgs and confirmation soil samples from the floor of this excavation detected TPH-d at concentrations up to 1,000 ppm. Following removal of Tanks #2 and #3 and a former pipeline trench in 1992, confirmation soil samples were generally non-detectable, with the

exception of TPH-d at 460 ppm from a location in the pipeline trench adjacent to former location of Tank #1. As a result of this detection, additional excavation activities were conducted around the former Tank #1 area in 1992. The excavation reached the size of approximately 50 by 70 feet. The depth of this excavation is unknown. Final soil samples from this excavation sidewall detected TPH-g and TPH-d at concentrations up to 100 ppm and 1,300 ppm, respectively. The excavation was then backfilled. A soil and groundwater investigation conducted by ALLCAL in 1997 around the areas of these former USTs concluded that, "the results of this investigation suggest there are no significant soil or groundwater BTEX plumes at the subject site, if any". This report noted that there were residual concentrations of TPH-g and TPH-d of 100 ppm and 1,300 ppm, respectively, and TPH-d was detected in groundwater at a maximum concentration of 2,800 ppb (ALLCAL, 1997). This investigation resulted in Site closure by the City of San Leandro and then the SFB RWQCB. Additionally, the March 2021 Limited Phase II Subsurface Investigation did not indicate subsurface contamination resulting from these facilities; therefore, this facility is considered an hREC in the context of this Phase I ESA.

The term recognized environmental condition is not intended to include de minimis conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

Roux conducted a Limited Phase II Subsurface Investigation for FIRT in March 2021 to investigate concerns identified in the initial Site walk and document review related to this Phase I ESA. The results of the Limited Phase II Subsurface Investigation did not identify conditions directly related to the concerns that indicate significant subsurface contamination resulting from these facilities. The ACM and other regulated materials survey identified building materials in all structures on Site that should be properly addressed by appropriately qualified professionals prior to renovation or demolition activities. The Limited Phase II Subsurface Investigation Report is included in Appendix H.

1. Introduction

Roux Associates, Inc. (Roux) completed this Phase I Environmental Site Assessment (ESA) of the commercial property located at 14143-14273 Washington Avenue, San Leandro, California 94578 (the Site). The Site location is shown in Figure 1 and the Site and vicinity is shown in Figure 2. Roux performed this Phase I ESA in compliance with the scope and limitations of American Society for Testing Materials (ASTM) E1527-13 and the terms and conditions of Roux' proposal dated January 29, 2021. Roux conducted this Phase I ESA for the benefit of First Industrial Realty Trust, Inc. (FIRT, the User).

The following sections of this report present our Phase I ESA findings and conclusions. A glossary containing terms and definitions presented in ASTM E1527-13 is included in Appendix A – Glossary of Terms. Other appendices presented at the end of the report include historical topographic maps, historical aerial photographs, regulatory records review documentation, applicable historical records, and personnel qualifications.

1.1 Purpose

The purpose of this Phase I ESA is to identify and report, to the extent feasible, recognized environmental conditions (RECs) with respect to the Site. Performing a Phase I ESA in general compliance with ASTM E 1527-13 may enable a User to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) liability. That is, the practice that constitutes one of the requirements for "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in 42 USC Section 9601(35) (B).

1.2 Scope of Services

The scope of services for this Phase I ESA included, but was not limited to, the activities listed below.

- A review of reasonably ascertainable and practicably reviewable topographic maps, historical aerial photographs, and city directories, if available, to investigate past Site conditions;
- A review of specific government lists pursuant to ASTM Standard E 1527-13 regarding environmental activities for the Site and local area properties;
- A review of recorded land title records, building, assessors, and fire department records, for permits, citations, and reports connected to the Site that were reasonably ascertainable, practicably reviewable, and publicly available within reasonable time and cost;
- An inspection by an environmental professional to investigate the current use of the Site and to identify environmental concerns including but not limited to, the presence of hazardous substances or petroleum products, wastes, underground storage tanks (USTs), aboveground storage tanks (ASTs), or other environmental concerns;
- Interviews with available representatives of the owner of the Site, occupants, and local government officials by an environmental professional; and
- Preparation of this Phase I ESA report.

Roux initiated this Phase I ESA pursuant to receipt of written authorization to proceed on February 1, 2021 and authorization to complete the Phase I ESA update on August 4, 2021.

1.3 Standard of Care

Roux conducted this Phase I ESA using a defined scope of services considered appropriate and agreed upon by all parties on the date the service was authorized, unless the scope of services or the methods used were later modified, in writing, and accepted by all parties prior to performance. Roux conducted this Phase I ESA in accordance with generally accepted practices in a manner consistent with that level of care exercised by other members of our profession in the same locality and under similar conditions of time and accessibility of improvements and information. No other representations, expressed or implied, and no warranty or guarantee is included or intended to be part of this Phase I ESA.

Please note that the scope of services performed in execution of this assessment may not be appropriate to satisfy the needs of other parties. We, therefore, are not responsible for independent conclusions, opinions, or recommendations of others based on our assessment. Furthermore, this Phase I ESA relates to the environmental conditions of the Site and does not address issues raised in transactions such as business risk, purchase of business entities, or interests therein, or of their assets, that may well involve environmental liabilities pertaining to properties previously owned or operated or other offsite liabilities.

Additionally, the findings of this Phase I ESA are based on Roux' observations, inquiries, and historical research using reasonably ascertainable and practically reviewable information obtained within reasonable time and cost constraints. Roux does not represent that this Phase I ESA is an exhaustive investigation that reflects the findings of all of the information available for the Site, nor is it representative of future Site conditions. If additional information is generated from the Site, it should be provided to Roux so that we may evaluate its impact on our conclusions. As such, activities or episodes that transpire subsequent to this Phase I ESA are not considered in this assessment. It is not intended that a Phase I ESA in accordance with ASTM E1527-13 be an exhaustive assessment of a property nor can it wholly eliminate uncertainty regarding the potential for *recognized environmental conditions* in connection with a property.

1.4 Assumptions

This Phase I ESA Report, including the exhibits attached hereto, describes the results of Roux' investigation to identify the presence of *recognized environmental conditions* connected with the Site in accordance with ASTM E1527-13, as allowed by and consistent with the regulatory requirements of the All Appropriate Inquiry Rule, 40 CFR Part 312, Amendment to Standards and Practices for All Appropriate Inquires Under CERCLA, Final Rule, published December 30, 2013 (AAI Rule). Specifically, the preamble to the amended AAI Rule states:

> *The Environmental Protection Agency (EPA) today is taking final action to amend the standards and practices for conducting all appropriate inquiries under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) to reference a standard practice recently made available by ASTM International, a widely recognized standards development organization. Specifically, this final rule amends the ''All Appropriate Inquiries Rule'' at 40 CFR Part 312 to reference ASTM International's E1527–13 ''Standard Practice for Environmental Site Assessments: Phase I Environmental Site*

Assessment Process'' and make clear that persons conducting all appropriate inquiries may use the procedures included in this standard to comply with the All Appropriate Inquiries Rule[1].

One of the requirements that a person acquiring real property must meet in order to qualify for either the innocent landowner, contiguous owner, or bona fide prospective purchaser (collectively hereinafter "Prospective Purchaser") defense to liability under the federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986, and the Small Business Liability Relief and Brownfields' Revitalization Act of 2002, 42 U.S.C. 9601-9675 (collectively referred to hereafter as "CERCLA") is that person must conduct all appropriate inquiries into the previous ownership and uses of the property in conformance with the AAI Rule (or the ASTM E1527-13) prior to acquisition of the property. The User has acknowledged that, under the AAI Rule, Roux' performance of this Phase I ESA in accordance with ASTM E1527-13 will not alone result in the User satisfying all requirements of the AAI Rule and will not in itself provide a defense to CERCLA liability. The User has acknowledged that the AAI Rule also requires that the Prospective Purchaser undertake certain additional inquiries and post-acquisition activities to satisfy the CERCLA AAI requirements. Accordingly, Roux makes no guarantees or warranties, expressed or implied, regarding this Phase I ESA, including without limitation, that this Phase I ESA will qualify the User for a defense to CERCLA liability.

Roux has performed this Phase I ESA in a professional manner using that degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. Professional judgments expressed herein are based on the facts currently available to Roux.

The AAI Rule requires, and the conclusions and recommendations stated herein represent, the application of a variety of engineering and technical disciplines to material facts and conditions associated with the Site. As such, these conclusions and recommendations are based on subjective interpretations and the exercise of discretion based on the facts available to Roux and conditions at the time of the performance of this Phase I ESA. Many of these facts and conditions are subject to change over time. Accordingly, the conclusions and recommendations must be considered within this context.

The User has agreed that Roux shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time this Phase I ESA was performed. To the extent practicable, Roux has identified data gaps, and has evaluated the potential significance of such data gaps. Recommendations to address those data gaps are presented herein and are based on the data available at the time of the performance of this Phase I ESA. Implementation of the recommendations may not fully address the data gaps, and the information obtained from execution of those recommendations may alter and/or modify the interpretation of the Site conditions and conclusions, herein. This Phase I ESA does not include consideration of matters specifically excluded by ASTM E1527-13, including but not limited to, asbestos-containing building materials, radon, lead-based paint, lead in drinking water, wetlands, regulatory compliance, and mold unless specifically identified herein.

Roux has not collected any soil and/or groundwater samples on the Site for Phase I purposes, and is relying on information presented by others, often in preliminary, draft, or verbal form. By referencing this information, Roux does not accept responsibility for the accuracy of the underlying data, sampling methods, laboratory analysis, or documentation.

[1] Federal Register: December 30, 2013 (Volume 78, Number 250) Page 79319

This Phase I ESA Report should not be considered a legal interpretation of existing environmental laws and regulations. This Phase I ESA was conducted with a reasonable degree of inquiry to identify *recognized environmental conditions*, but uncertainty is not eliminated. No Phase I ESA can wholly eliminate uncertainty regarding the potential for *recognized environmental conditions* in connection with a property. The Phase I ESA process is intended to reduce, but not eliminate, the uncertainty involved with identifying *recognized environmental conditions*.

This Phase I ESA Report is not an appraisal or value judgment of the Site. The User has agreed that Roux shall not be liable for any use of this Phase I ESA Report as an appraisal or value judgment of the Site.

This Phase I ESA Report has been prepared for the exclusive use of the User for specific application to the Site covered by this Phase I ESA Report. The User has agreed that any third-party use of this Phase I ESA Report, upon disclosure by the User, is the sole responsibility and at the sole liability of the User.

1.5 User Reliance

No additional parties may use the information contained in this report without obtaining the written permission of Roux or the User. Roux' duties and obligations extend to the User and to no other party. Roux' duties and obligations to the User are not transferable to persons, corporations, or organizations without the express written consent of the User and Roux. The User may rely upon the information provided in this Phase I ESA report for a period of 180 days from the date of issue. After 180 days, this Phase I ESA should be updated in accordance with ASTM guidance. Roux will not be liable for any consequential damages arising from the use of this report for other than its intended purpose, for use of this report beyond 180 days of its issue date, or from unauthorized use by third parties.

This Phase I ESA report must be read and interpreted as a whole and can only be considered representative of the conditions of the Site as of the date of our site reconnaissance described herein. Roux makes no representation whatsoever concerning the condition of the Site beyond the date of our site reconnaissance described herein. Individual sections and appendices of this report are dependent on the balance of this report, and on the terms, conditions, and stipulations contained in the proposal and written amendments accepted by Roux.

2. Site Description

2.1 Site Location and Description

Site Information	
Street Address(es)	14143-14273 Washington Avenue
City	City of San Leandro
County	Alameda County
State	California
Location	Situated along the west side of Washington Avenue, north of the intersection with 143rd Street.
Assessor's Parcel Number (APN)	As shown on Figure 2: • Parcel 1: 77B-1222-3-3 – associated with current addresses 14143 and 14143-A Washington Ave. • Parcel 2: 77B-1222-4-3 – associated with current address 14173 Washington Ave. • Parcel 3: 77B-1222-5-3 – associated with former address 14193 Washington Ave. • Parcel 4: 77B-1222-6-15 – associated with former address 14251 Washington Ave. • Parcel 5: 77B-1222-6-17– associated with current address 14273 Washington Ave. • Parcel 6: 77B-1222-6-18 – associated with current address 14273 Washington Ave. • Parcel 7: 77B-1222-6-19 – associated with current address 14273 Washington Ave.
Site Acreage (per City of San Leandro Zoning)	3.48 acres
Site Occupant(s)	• Residence and Zermeno's Custom Ironwork at Parcel 1 • Residential at Parcel 2 • Vacant property at Parcels 3 through 7
Onsite Operations	Parcels 1 and 2 are residential and also occupied by Zermeno's Custom Ironwork. Now vacant, the most recent tenant at 14273 Washington Avenue was Apollo Motorhome Holidays, an RV rental and storage facility, which included a vehicle wash area, reception/office area and maintenance garage.
Description of Onsite Structures	As shown on Figure 2: • Building A – Office and Shop for former RV rental operation • Building B – Wash area for former RV rental operation • Building C – Residence and detached garage at 14173 Washington Avenue • Building D – Residence at 14143 Washington Avenue • Building E – Zermeno's facility consisting of several simple metal structures and containers at 14143-A Washington Avenue
Site Paving	Concrete and asphalt in moderate to poor condition. Bare soil in areas of Parcels 1 and 2.

Site Information	
Site Grading	Graded to drain at a gentle slope roughly to the southeast
Site Vicinity	Mixed commercial/industrial with limited residential

Refer to Section 5.0 for a detailed description of the current condition of the Site and operations.

2.2 Vicinity General Characteristics

The facilities and improvements which are located immediately adjacent to the Site are provided in the following table.

Direction from Site	Improvements / Use (Addresses)
North	Light industrial operations including S&S Automotive, Pro-Smog Complete Auto Repair, and San Leandro Auto Upholstery
Northeast	Washington Avenue followed by light industrial operations including Island Auto Towing and Auto Repair
East	Washington Avenue followed by Larson Bro's Lumber and Public Storage
South/Southeast	Clarks Home and Garden with a storage yard containing masonry, stone, rocks mulch and other landscaping materials
Southwest	Railroad followed by industrial operations including A Beacon Roofing Supply Company and City of San Leandro Public Works. Further southwest is residential neighborhood
West	Railroad followed by a light industrial business park containing multiple distribution warehouses

2.3 Past Use of the Site

Roux performed a review of historical sources including topographic maps (Appendix B), aerial photographs (Appendix C), and city directories (Appendix E) obtained from Environmental Data Resources, Inc. (EDR).

Based on this review, the Site was initially undeveloped as early as 1899, although the Western Pacific Railroad line and present-day Washington Avenue are mapped to the west and east of the Site location, respectively. The Site was first developed with at least two rural residences in 1939 and an additional two rural residences by 1946 (Parcels 1, 2 and 3). During this period between the 1930s through the early 1960s, it appears that portions of the Site, specifically the southern portion, were possibly used for limited agricultural purposes. City directory listings for the Site during this time indicate the occupants were private citizens. In the late 1990s, the former residence at Parcel 3 appears to have been demolished and was eventually paved over. Two historical residences remain on Site at Parcels 1 and 2. Located behind the residence on Parcel 1 is Zermeno's Custom Ironworks, which has reportedly been operating on Site since the early 2000s.

By the mid-1960s, the Site was developed with two new structures in the southeast portion of the Site along Washington Avenue. Building A, the office and repair shop structure was constructed in the southeast corner and was originally associated with San Leandro Rental Services or United Rentals (which encompassed Parcels 3, 5, 6 and 7 at the address 14273 Washington Avenue) starting in 1965 to circa 2002. A second

smaller structure was constructed on Parcel 4 (address 14251 Washington Avenue) and was associated with the Big C Tavern, a cocktail lounge/bar, from approximately 1965 to 1999. This structure on Parcel 4 was reportedly demolished in 2001 and the property was then utilized by the equipment rental operations.

The Site appeared to transition to the RV rental operations around 2009; which occupied the majority of the Site, with the exceptions of Parcels 1 and 2. At the time of the Site reconnaissance, the 14273 Washington Avenue portion of the Site was vacant.

2.4 Physical Setting

Roux obtained and reviewed published, reasonably ascertainable information concerning the physical setting of the Site. The following is a summary of the information reviewed from those physical setting sources.

Physical Setting Summary	
United States Geological Survey (USGS) Topographic Map	San Leandro, California Quadrangle
Approximate Site Elevation / Source	39 feet above mean sea level (msl) / San Leandro, California (2012) 7.5-minute quadrangle topographic map published by the USGS
Nearest Surface Water Features / Approximate Distance	Chabot Lake is situated approximately 2.3 miles east of the Site and the San Francisco Bay is situated approximately 2.5 miles west of the Site.
Regional Geology / Source	The Site is located in the San Francisco Bay Region, which is comprised of alluvial and marine sediments including Bay Mud, the Merritt Sand and Younger and Older Alluvium / Phase I ESA – 295 139th Avenue, San Leandro (Basics, 2015)
Site Topography / Source	Generally flat with a gradual slope to the southeast / Site observation and USGS topographic map
Hydrogeological Region / Source	Located in the East Bay Plain of the Coast Ranges physiographic province. The East Bay Plain is an area of flat alluvial lowlands and bay and tidal marches lying between the bedrock hills of the Diablo Range to the east and San Francisco Bay to the west. Near the Site area, the eastern boundary of the plain is located along the Hayward fault, which is at the base of the Diablo Range escarpment, about a mile to the northeast. / *Report of Well Installation – Palace Garage 14336 Washington Avenue, San Leandro, CA 94566* (ALLCAL, 2000).
Depth to Groundwater / Source	Approximately 18 to 20 feet bgs / Phase I ESA – 295 139th Avenue, San Leandro (Basics, 2015) Groundwater was encountered at approximately 19 feet bgs in the 1997 investigation by ALLCAL (ALLCAL, 1997) Groundwater was encountered at approximately 17-20 feet bgs in the March 2021 Limited Phase II Investigation conducted by Roux (Roux, 2021)
Groundwater Gradient Direction / Source	West-southwest / Groundwater monitoring data for multiple nearby sites

Physical Setting Summary	
Onsite Soil	Previous investigations on Site have generally described conditions as clayey silt and sandy silt. Soils encountered during the March 2021 Limited Phase II Investigation conducted by Roux were generally comprised of clay and poorly graded sand, fine to medium grain in size (Roux, 2021) Investigations performed at a nearby Site (219 139th Avenue to the north) reported silty clays to approximately 5 feet bgs, followed by sandy-clays to approximately 10 feet bgs; and followed by silty clays to approximately 18 feet bgs. A sand layer was encountered at approximately 18 to 22 feet; followed by sandy clay to approximately 50 feet bgs / Phase I ESA – 295 139th Avenue, San Leandro (Basics, 2015)

3. Sources of Information

Sources of information utilized in preparing this Phase I ESA report included historical topographic maps; historical aerial photographs; a walkover survey of the Site and adjoining properties; in-person discussions with User and tenant personnel; a review of records available at selected local and state regulatory agencies; a review of databases maintained by local, state, and federal government agencies; and other records available from commercial and online sources.

3.1 Historical Sources

To help understand the history of the Site and past land uses, historical sources were obtained from Environmental Data Resources, Inc. (EDR), of Shelton, Connecticut. The sources and locations within the Appendices are provided in the table below.

EDR Historical Sources		
Historical Range	**Source**	**Appendix**
1899 - 2016	U.S. Geological Survey Topographic Maps	B
1939 - 2016	EDR Aerial Photographs "Decade Package" Google Earth	C
No Available Coverage	EDR "Certified Sanborn® Map Report"	D
1950 - 2017	EDR "City Directory Image Report"	E

3.2 Site Reconnaissance

Roux conducted three separate Site reconnaissance visits for the Site: February 9, 2021; February 12, 2021; and August 11, 2021. On February 9,2021, Roux personnel observed the interiors of all structures, with the exception of some shop areas that were part of the Zermeno's facility due to safety precautions. During the visit, Roux interacted with the Seller/Owner representative, Mr. Tom Damaschino. Roux personnel revisited the Site on February 12, 2021 and was provided access to the operations present at 14143-A Washington Avenue, currently Zermeno's Custom Ironworks. Mr. Al Zermeno, owner of Zermeno Custom Ironworks, provided access to the rear portion of Parcel 1. Both Mr. Damaschino and Mr. Zermeno provided limited information regarding recent operation of the Site, which is referenced, as appropriate, throughout the remainder of this Phase I ESA report and provided permission for Roux to document the Site reconnaissance with photographs. On August 11, 2021 Roux personnel toured the Site again to investigate potential changes that might have occurred with Site operations since the last Site reconnaissance on February 12 in order to finalize the Phase I ESA Report with Site information collected within the past 180 days.

3.3 Regulatory Agencies

Roux contacted governmental agencies for reasonably ascertainable information concerning environmental conditions at the Site. Roux contacted or reviewed information from the agencies provided in the following table. Refer to Appendix G – Regulatory Records Documentation for copies of the records reviewed. A summary of the information gathered from the regulatory agencies is provided in the table and details regarding the records were incorporated into applicable sections as noted.

Agency	Date Requested / Accessed	Response Date	Description of Records	Section Discussed
Federal				
U.S. Environmental Protection Agency (EPA) – Envirofacts	8/30/2021	N/A	Apollo Motorhome Holidays – Handler ID: CAC003076712	3.3.1
U.S EPA MyProperty Database	8/30/2021	N/A	Apollo Motorhome Holidays – Registry ID: 110065372723 San Leandro Rental – Registry ID: 110065204727 Zermenos Custom Ironworks – Registry ID: 110065417686	3.3.1
National Pipeline Mapping System (NPMS) Online Database	8/31/2021	N/A	An active natural gas pipeline travels along Washington Avenue adjacent to the Site. Pipeline ID 11176.	
State				
State Water Resources Control Board (SWRCB): GeoTracker Online Database	8/31/2021	N/A	The Site contains a listing for San Leandro Rental and is listed as a leaking underground storage tank (LUST) Cleanup Site (GeoTracker ID T0600101191) that was completed/closed as of 7/8/1997. Records provided include documents pertaining to the testing and removal of former USTs on Site.	3.3.2
SWRCB: Storm Water Multiple Application and Report Tracking System (SMARTS) Online Database	8/31/2021	N/A	The Site contains a former listing for United Rentals (WDID 2011018349). The status of the stormwater permit for the Site is shown as Terminated.	3.3.6
Department of Toxic Substances Control (DTSC)	8/31/2021	Pending	A response has not been received as of this report date.	
DTSC: EnviroStor Online Database	8/31/2021	N/A	No records were associated with the Site.	
DTSC: Hazardous Waste Tracking System (HWTS) Online Database	8/31/2021	N/A	Several documents tracked the types and quantities of hazardous waste transported off Site for disposal between 1995 and 2013.	3.3.3

Agency	Date Requested / Accessed	Response Date	Description of Records	Section Discussed
California Air Resources Board (CARB)	2/2/2021 8/31/2021	2/5/2021 Pending	Roux conducted a records request in February 2021 and no records were associated with the Site. The records request was re-submitted in August 2021 and an updated response has not been received as of this report date.	
California Office of Environmental Health Hazard Assessment (OEHHA)	2/2/2021 8/31/2021	2/15/2021 Pending	Roux conducted a records request in February 2021 and no records were associated with the Site. The records request was re-submitted in August 2021 and an updated response has not been received as of this report date.	
California EPA (CalEPA) Regulated Site Portal	8/31/2021	N/A	San Leandro Rental – Source System ID T0600101191 Apollo Motorhome Holidays – Source System ID 10159957 Zermenos Custom Ironworks – Source System ID 10630429	3.3.2 3.3.7 3.3.7
CalEPA CalRecycle	2/2/2021 8/31/2021	2/8/2021 Pending	Roux conducted a records request in February 2021 and no records were associated with the Site. The records request was re-submitted in August 2021 and an updated response has not been received as of this report date.	
CalEPA CalRecycle Solid Waste Information System (SWIS) Online Database	8/31/2021	N/A	No records were associated with the Site.	
State of California Department of Conservation: Division of Oil, Gas and Geothermal Resources (DOGGR) Online Database	8/31/2021	N/A	No on-site or nearby oil wells identified.	
County / Regional				
San Francisco Bay Regional Water Quality Control Board (SFB RWQCB)	2/2/2021 8/31/2021	2/9/2021 Pending	Roux conducted a records request in February 2021 and no records were associated with the Site. The records request was re-submitted in August 2021 and an updated response has not been received as of this report date.	
Bay Area Air Quality Management District (BAAQMD)	2/2/2021 8/31/2021	2/10/2021 9/2/2021	The User and BAAQMD provided BAAQMD-related documents for the Site including permits to operate.	3.3.4
BAAQMD Facility Information Detail (FIND) Online Database	8/31/2021	N/A	No records were associated with the Site.	
Alameda County Public Works Agency	2/3/2021	2/3/2021	No records were associated with the Site as the parcels are within the jurisdiction of the City of San Leandro.	

Agency	Date Requested / Accessed	Response Date	Description of Records	Section Discussed
City / Local				
City of San Leandro: Various Departments	2/2/2021 8/31/2021	2/9/2021 8/31/2021	The City allowed Roux to review several records associated with the Site. Pertinent records are discussed below.	3.3.5
Alameda County Department of Environmental Health (ACDEH) – Land and Water Protection – Onsite Wastewater Treatment Systems (OWTS)	2/3/2021 8/31/2021	2/5/2021 Pending	ACDEH provided two *Waste Tire Survey & Inspection Report Survey Forms* dated 11/24/2010 that indicate the United Rentals tenant ceased operations and the new tenant, Apollo RV Rentals has opened at 14273 Washington Ave. The reviewed documents do not indicate an environmental concern. A records request was resubmitted in August 2021 for the period between February 2021 and August 2021 and an updated response has not been received as of this report date.	

3.3.1 USEPA Envirofacts and MyProperty Databases

Previous occupant at 14273 Washington Avenue, Apollo Motorhome Holidays (ID 110065372723) was identified in the CA-ENVIROVIEW system for the hazardous waste program and in the RCRA Information System for hazardous waste generation. Previous occupant San Leandro Rental (ID 110065204727), was identified in the CA-ENVIROVIEW system for a LUST case, discussed below.

The current occupant at 14143 Washington Ave, Zermeno's Custom Ironworks (ID 110065417686) was identified in the CA-ENVIROVIEW system.

3.3.2 SWRCB: GeoTracker Online Database

The Site contains a listing for San Leandro Rental (GeoTracker ID T0600101191), which was a LUST Cleanup Site. The case is reported as *Completed – Case Closed as of 7/8/1997.* Two document packages were available on GeoTracker and contain several documents related to the removal of USTs including laboratory reports, permits, diagrams and leak tests. These GeoTracker-provided documents are included in Appendix G.

In addition to documents reviewed on GeoTracker, Roux reviewed records provided by the Client and from the City of San Leandro, as discussed below in Section 3.3.5. Given the various, and often redundant, sources regarding former USTs on the Site, Roux has provided a historical summary of each known UST in this section.

Records indicate that the City of San Leandro Fire Department (SLFD) was the lead regulatory agency responsible for UST permitting and removals, with the SFB RWQCB as the secondary agency.

Tank #1 – a 1,000-gallon diesel UST installed in 1964 along with a dispenser and pump at a location adjacent to the sidewalk of Washington Avenue and south of the former Big C Lounge. This location was north of the western portion of Building A and was installed by San Leandro Rentals. Tank #1 was removed on January 7, 1991 by Scott Company. It is reported that soil samples were collected from the floor of the tank excavation and analyzed for total petroleum hydrocarbons as diesel (TPH-d) and for benzene, toluene, ethylbenzene, and xylenes (BTEX). Soil contamination was detected and as a result, an Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report was filed with the SLFD. On January 17, 1991, the contaminated soil was excavated to a depth of about 20 feet (width of excavation is unknown) and soil samples collected from the excavation floor detected TPH-d at concentrations up to 1,000 ppm. Following this work, no further remedial work was conducted, the excavation was closed and excavated contaminated soil was stockpiled at the rear of the property. This area was re-excavated in April 1992 by J. Quarle & Associates (Quarle). The new excavation reached a size of about 50 by 70 feet, however, the depth of this excavation is unknown. Confirmation soil samples collected by Quarle in June, 1992 detected TPH-gasoline (TPH-g) and TPH-d at concentrations up to 100 ppm and 1,300 ppm, respectively. Excavated soil was stockpiled on Site and the excavation was backfilled with imported material.

Tank #2 – a 1,000-gallon diesel UST installed by San Leandro Rentals closer to Building A along with a new dispenser island and two service pumps in 1971. In addition, a new vent and product line were connected to Tank #1. Records indicate that the pump and island at Tank #1 was removed around this time.

Tank #3 – a 5,000-gallon gasoline UST installed adjacent to Tank #2 and connected to the existing pump network in 1974. This tank was also installed by San Leandro Rentals.

Tanks #2 and #3 were removed by Quarle on April 7, 1992. The underground piping that led to former Tank #1 was also removed. Confirmation soil samples were collected from both tank excavations and the pipeline trench and analyzed for TPH-g, TPH-d and BTEX. It is reported that the results from these confirmation samples were nondetectable, with the exception of 460 ppm TPH-d in the soil sample collected in the pipeline trench adjacent to the Tank #1 excavation area, leading to the excavation discussed above. The excavation pits and pipeline trench were backfilled on April 10, 1992. Approximately 2,450 cubic yards of excavated soil were disposed of at either Redwood Landfill Inc. located in Novato, California or at Altamont Landfill and Resource Recovery Facility located in Livermore, California.

Although available records on GeoTracker do not provide closure documents, other records reviewed show that the SFB RWQCB provided a Closure Letter for three of the four USTs dated June 17, 1997 which states, "no further action related to the underground tank release is required". The City of San Leandro, the lead agency, recommended closure of the LUST case to the SFB RWQCB in a letter dated June 11, 1997.

Tank #4 – a reported 550-gallon waste oil UST was located behind Building A along the southern property line. Roux has not reviewed any records indicating when this specific UST was installed and has only reviewed records of its removal in 1998 by Quarle. The Underground Tank Removal letter prepared by Quarle is summarized in Section 7.2 below, but Roux has not reviewed any documentation indicating that this specific UST, Tank #4, received formal regulatory closure from either the SLFD or the SFB RWQCB.

3.3.3 DTSC HWTS

San Leandro Rental (CAL000060805), formerly located at 14273 Washington Avenue, generated the following wastes: aqueous solution with organic residues (code 134) in 1995; waste oil and mixed oil (code 221) in 1995, 1996 and 1999; and "other empty containers greater than or equal to 30 gallons" (code 512) in 1998. The total hazardous waste generated by San Leandro Rental was less than three tons. San Leandro Rental was also associated with ID numbers CAC000544944 and CAL000188243, although no additional information on generated waste was provided.

United Rentals Inc #053 (CAL000171535), formerly located at 14273 Washington Avenue, generated the following wastes: waste oil and mixed oil (code 221) in 2008; unspecified oil-containing waste (code 223) in 2004; off-spec, aged or surplus organics (code 331) in 2008; and other organic solids (code 352) in 2004, 2005 and 2008. Federal RCRA waste codes categorized waste generated in 2008 as ignitable, chromium, lead, and methyl ethyl ketone (MEK). The total hazardous waste generated by United Rentals ranged from less than 1 ton to 1.2 tons. United Rentals was also listed with ID number CAC001087592; although no additional information on generated waste was provided.

Apollo Motorhome Holidays, LLC (CAC003076712), formerly located at 14273 Washington Avenue, is listed for a temporary ID, although no additional information on generated waste was provided.

Apollo Motorhome Holiday (CAL000373875), formerly located at 14273 Washington Avenue, is listed for a permanent ID, although no additional information on generated waste was provided.

R.L. Stevens Company (CAC002739079), formerly located at 14273 Washington Avenue, generated hydrocarbon solvents (code 213) in 2013. The total hazardous waste generated by R.L. Stevens Company did not exceed 0.5 tons. According to federal RCRA waste codes, 0.4587 tons of benzene was generated in 2013. Additional records reviewed suggest that the 2,000-gallon split tank AST on Site was emptied out in 2013; thus, this listing is likely associated with that activity.

No information indicating a release or mismanagement of the hazardous waste was identified in the DTSC HWTS database.

3.3.4 BAAQMD

The User provided Roux with a BAAQMD Authority to Construct Permit (Application 22626) dated June 25, 1991 for a 2,000-gallon aboveground split tank with one 1,000-gallon gasoline tank and one 1,000-gallon diesel tank. This permit was provided to San Leandro Rental. This AST is still present on Site but it is not being utilized.

3.3.5 City of San Leandro

The User provided Roux with a series of records pertaining to the Site, including documents from the City of San Leandro. The City of San Leandro also responded to the public records request and provided Roux personnel access to review several documents related to current and former Site tenants. Multiple records reviewed were from the City of San Leandro Environmental Services Section and the SLFD. Below are bullet summaries of pertinent records reviewed from the City of San Leandro for the specific addresses. Specific records are provided in Appendix G – Regulatory Records Documentation.

14273 Washington Ave (Parcels 3-7)

- 1964 – Documents and a diagram indicating that a new 1,000-gallon gasoline UST (Tank #1) and pump will be installed north of the eastern portion of Building A, near the Washington Avenue entrance.

- 1971 – Documents and a diagram indicating that a new 1,000-gallon UST (Tank #2) and new dispenser island with two pumps will be installed closer to Building A.

- 1974 - Documents from the SLFD indicating the installation of a new 5,000-gallon UST (Tank #3) to be connected to the existing fuel island is in 1974.

- 1982 - Approval from the City of San Leandro, dated March 10, 1982, for the installation of one propane tank.

- Periodic Fire Safety Inspection Reports from the late 1970s to early 1990s

- 1992 – Permit for the removal of Tanks #2 and #3

- 1997 - Request for Case Closure Letter prepared by the City of San Leandro and dated June 11, 1997. In this letter, the City recommends that “no further action be required at 14273 Washington and the Regional Board formally close this case with a case closure letter”. This closure was for the two 1,000-gallon USTs and the one 5,000-gallon UST. The SFB RWQCB subsequently provided a Closure Letter for San Leandro Rental dated June 17, 1997 which states, “no further action related to the underground tank release is required”.

- 2003 – City of San Leandro Environmental Services Division Complaint/Illicit Discharge/Spill Report. A compliant was filed by US EPA with the statement “stormwater discharge on-going”. US EPA received a complaint from Sergio Lopez alleging an illegal stormwater discharge from United Rentals located at 14273 Washington Ave. A follow up inspection was scheduled for the week after the complaint was filed. Two sources of discharge were identified during the inspection: one in front of the property and the other toward the rear from truck and vehicle washing.

- 2012 – Facility Site Map from an Emergency Response/Contingency plan that provides storm drain locations throughout the Site.

- 2013 - Documents from 2013 indicating that the 2,000-gasllon split tank AST was emptied, cleaned and closed out.

- 2014 – City of San Leandro Environmental Services Division Complaint/Illicit Discharge/Spill Report. A complaint was filed by the Public Works Streets Staff with the statement “Sampling manhole in landscaping overflowing”. The source of the spill is identified as lateral blockage with grit from Apollo Motorhomes located at 14273 Washington Ave. The lift station for washrack discharge was plugged with grit, backing up wastewater discharge and overflowing out a wetwell into landscaping. Soapy water was observed in the landscaping.

- 2015 - Facility Closure documents from 2015 indicating that Apollo had outsourced all oil services on their vehicles since at least early 2014.

- 2018 – California Environmental Reporting System (CERS) application for Apollo Motorhome Holidays (CERS ID 10159957) for the propane AST.

- Hazardous materials and Waste CUPA Registration forms for Apollo Motorhome Holidays from Feb 2020 to March 2010.

- 2020 - Correspondence in late 2020 between the City of San Leandro Environmental Services with Apollo regarding closure of the propane AST. It does not appear that formal closure was provided by Apollo Motorhome Holidays.

For 14251 Washington Avenue (Parcel 4)

- 2001 - Permits indicating that the former structure, Big C Lounge, was demolished around 2001.

- Periodic Fire Safety Inspection reports for the former Big C Lounge.

- No records indicating an environmental concern were found related to this address and the former Big C Lounge.

For 14143-A Washington Avenue (Parcel 1)

- CUPA Registration forms or notice of delinquent payments for the Zermeno’s facility from March 2015 to Feb 2020.

- September 2015 Inspection Report by the City of San Leandro Environmental Services Division stated that there is a spray painting area but reported “ no signs of over spray on the ground”.

3.3.6 SWRCB: Storm Water Multiple Application and Report Tracking System (SMARTS) Online Database

Previous occupant at 14273 Washington Avenue, United Rentals (WDID 201I018349) was identified in the SMARTS system for an industrial stormwater permit. The stormwater permit status is listed as Terminated with a status date of 01/29/2009. The basis of termination is listed as “Closed Facility” and all closure, moving and clean-up activities have been completed.

3.3.7 California EPA Regulated Site Portal

Current occupant at 14143 Washington Avenue, Zermenos Custon Ironworks (CERS ID 10630429), is listed as a chemical storage facility in the California Environmental Reporting System. The facility has a start date of 05/29/2015 in this system with no listed end date. The chemicals listed for this tenant are oxygen, liquefied petroleum gas, carbon dioxide, argon mixed with carbon dioxide, compressed argon, and acetylene.

Previous occupant at 14273 Washington Avenue, Apollo Motorhome Holidays (CERS ID 10159957), is listed as a chemical storage facility in the California Environmental Reporting System. The facility has a start date of 7/10/2013 in this system with no listed end date. The database includes record of a compliance inspection from 10/15/2020 for Hazardous Materials Release Response Plans with the note “Site is vacant. No notice to CUPA.”. The chemical listed for this tenant is propane.

3.4 Government Databases

To document potential sources of contamination at or near the Site, a government records search was conducted by EDR. The search included local, state, and federal records for the Site and for other properties within ASTM-standard distances of the Site. The records search is summarized in Section 8.0 and a copy of “The EDR Radius Map™ Report with GeoCheck®,” dated August 12, 2021, is included in its entirety as Appendix F. As recommended by ASTM, all but a few of the databases searched were “current,” i.e., had been updated within 90 days prior to the search date.

3.5 User Provided Information

ASTM E1527-13 provides that the User perform certain tasks. The purpose of this section is to present select User-provided information that can assist in identifying possible *recognized environmental conditions* in connection with the Site. According to ASTM E1527-13, these tasks do not require the technical expertise of an environmental professional and the environmental professional generally does not perform these tasks. Roux administered a questionnaire to the User at the beginning of this Phase I ESA to assist them with these tasks. The following sections outline the parts of the questionnaire that the User completed.

3.5.1 Environmental Liens or Activity and Use Limitations

The User indicated that they have no knowledge regarding environmental liens or activity and use limitations (engineering/institutional controls) with respect to the Site.

3.5.2 Specialized Knowledge

The User did not report any specialized knowledge related to the Site, not otherwise addressed. The User provided several documents related to the Site, included but not limited to legal agreements, deeds, regulatory inspections reports, tank permits/documents, previous investigation reports and site maps.

3.5.3 Valuation Reduction for Environmental Issues

The User indicated that they have no knowledge regarding valuation reduction for environmental issues.

3.5.4 Commonly Known or Reasonably Ascertainable Information

The User did not have any knowledge regarding commonly known or reasonable ascertainable information about the Site not otherwise addressed in this Report.

3.5.5 Obvious Indicators of the Presence or Likely Presence of Contamination of the Site

The User did not have any knowledge regarding commonly known or reasonable ascertainable information about the Site not otherwise addressed in this Report.

4. Site History

This section documents the history of the Site and describes current conditions and existing or former environmental features.

4.1 Site History

The history of the Site and, to a lesser extent, the surrounding area, including previous land use, has been compiled based on information from the exhaustive list of sources provided in Section 3.

Summary of Historical Sources				
Decade	**Year**	**Source**	**Site Description**	**Vicinity Description**
Predevelopment History				
Pre-1900	1899	Historical Topographic Map: Hayward (15-minute)	The approximate location of the Site is undeveloped land.	The Western Pacific Railroad line is present to the west, running southeast to northwest. An unnamed road in the location of present-day Washington Avenue is present to the east. The largest area of development is to the north and southeast.
1910s	1915	Historical Topographic Map: Hayward (15-minute)	The approximate location of the Site is undeveloped land.	Same as previous topographic map description. There is a second railroad line, also labeled *Western*, that is present to the east of the Site.
1920s	No Sources Available			
Initial Site Development				
1930s	1939	EDR Aerial Photograph	There are two residential structures visible on Site, one in the northernmost portion and one in the center (near Parcel 3). Surrounding land on Site appears to possibly be used for limited agricultural purposes.	Much of the adjacent and surrounding property is agricultural use with rural residences. The Western Pacific Railroad is present to the west of the Site.
1940s	1947	Historical Topographic Map: San Leandro (7.5-minute)	The Site location is bounded by the Western Pacific Railroad on the west and Washington Avenue on the east. There are four squares indicating structures located along the eastern side of the Site. These markings resemble structures observed in the 1939 aerial photograph.	The vicinity has seen significant development to the north, east and south of the Site.

Summary of Historical Sources				
Decade	**Year**	**Source**	**Site Description**	**Vicinity Description**
	1946	EDR Aerial Photograph	There appears to be two new residences, for a total of four, situated between the two original residences observed in the 1939 aerial photograph. The southernmost portion of the Site appears to be agricultural, although there are a few rows of trees around the residences.	Same as previous aerial photograph description.
1950s	1948/1950	Historical Topographic Map: San Leandro (7.5-minute)	Same as previous topographic map description.	Same as previous topographic map description. The present day 880 Freeway is mapped to the west of the Site.
	1958	EDR Aerial Photograph	Conditions are similar to those described in the previous aerial photograph. There appear to be four distinct residences on Site with the southern portion possibly being used for limited agricultural use.	There is increased development in the vicinity, particularly on the property adjacent south of the Site.
	1959	Historical Topographic Map: San Leandro (7.5-minute)	Same as previous topographic map description.	Same as previous topographic map description.
		EDR City Directory	City directory listings for this decade list what appear to be private citizens at the addresses 14143, 14173. 14193 and 14205 Washington Avenue.	N/A
Commercial Development				
1960s	1963	EDR Aerial Photographs	Conditions are similar to those described in the previous aerial photograph. Land in the southern portion of the Site is disturbed and does not appear to be utilized for agricultural purposes.	There is increased development in the vicinity, particularly on the property adjacent east of the Site.
		EDR City Directory	City directory listings for this decade have listed what appear to be private citizens at the addresses 14143, 14173. 14193 and 14205 Washington Avenue between 1960 and 1965. In 1965, there are new listings for San Leandro Rental Services at 14273 Washington Avenue and Big C Tavern at 14251 Washington Avenue.	N/A

Summary of Historical Sources				
Decade	**Year**	**Source**	**Site Description**	**Vicinity Description**
	1964/1965	Historical Records	The first UST, a 1,000-gallon diesel tank (Tank #1) is installed along with a pump and island near the Site entry from Washington Avenue, located outside the northeast corner of present-day Building A.	N/A
	1968	EDR Aerial Photographs	Available imagery is unclear; however, all four previous residences appear to be present on Site. The southernmost portion of the Site is blurry, and it is unclear if new structures associated with the equipment rental service and Big C Tavern have been constructed.	Same as previous aerial photograph description.
		Historical Topographic Map: San Leandro (7.5-minute)	In addition to the four black square indicating the four residences, there is a new marking in the southern portion of the Site that likely represents the building associated with San Leandro Rentals (present day Building A).	Same as previous topographic map description. The former Pacific railroad line to the east is being renovated to the rapid transit line.
1970s	1971/1972	Historical Records	A new 1,000-gallon UST (Tank #2) and pump island with two pumps is installed closer to Building A. Tank #1 remains in the ground but the former pump and island are removed. A vent and product line is installed between Tank #1 and Tank #2.	N/A
	1973	Historical Topographic Map: San Leandro (7.5-minute)	Same as previous topographic map description.	Same as previous topographic map description. The Western Pacific Railroad is still present along the western boundary of the Site.
	1974	Historical Records	A new 5,000-gallon UST (Tank #3) is installed near Tank #2, just north of Building A.	N/A
		EDR Aerial Photographs	There are three residences still present on Site and located in the northeast portion (Parcels 1, 2 and 3). The northwest portion of the Site now appears vacant and not maintained as part of the adjacent residences. Visible in the south portion of the Site is Building A, the office/shop building for the equipment rental operations and a small structure, identified as Big C Tavern in supporting documents (Parcel 4). Pavement around the Big C Tavern is asphalt for parking. The pavement throughout the remainder of the Site	Property adjacent to the north and south are developed with the structures resembling present-day conditions. Much of the surrounding property remains light industrial and commercial operations. There is a new railroad spur emanating from the Western Pacific Railroad line that services the property to the west of the Site.

Summary of Historical Sources				
Decade	**Year**	**Source**	**Site Description**	**Vicinity Description**
			appears to be asphalt and concrete with various equipment being staged on Site. Additional documents showed that a UST was located outside the southeast corner of the Big C Tavern structure. This aerial photograph shows a concrete patch in the area of this former UST.	
		City Directory	The City Directory for this decade lists private citizens at the address 14143 Washington Avenue. Big C Cocktail Lounge is listed in 1970 and 1975 at 14251 Washington Avenue and San Leandro Rental Services is listed in 1970 at 14273 Washington Avenue.	N/A
1980s	1980	Historical Topographic Map: San Leandro (7.5-minute)	Same as previous topographic map description.	Same as previous topographic map description.
	1982	EDR Aerial Photographs	While the image provide for this photograph is blurry, the conditions appear the same as the previous aerial photograph. It does appear that the land in the northwest portion behind the residences is being utilized by the equipment rental tenant.	Same as previous aerial photograph description.
		City Directory	The City Directory for this decade lists the Big C Cocktail Lounge (or similar) at 14251 Washington Avenue and San Leandro Rental Services (or similar) at 14273 Washington Avenue	N/A
1990s	1991	Historical Records	Tank #1 is removed.	N/A
	1992	Historical Records	Tanks #2 and #3 are removed, as is the piping that led to former Tank #1. Excavation activities are conducted around the former Tank #1 area.	N/A
	1993	EDR Aerial Photograph	Same as previous aerial photograph description. Historical documents show that soil was stockpiled in the northwest corner as a result of UST removals. These soil stockpiles are visible in this aerial photograph.	Same as previous aerial photograph description.

Summary of Historical Sources				
Decade	**Year**	**Source**	**Site Description**	**Vicinity Description**
	1998	Historical Records	Tank #4, a 550-gallon waste oil UST located south of Building A, is removed.	
		EDR Aerial Photograph	The majority of the Site appears to be consistent with the previous aerial description; however, one residence on Parcel 3 appears to have been demolished.	The vicinity generally appears consistent with present day conditions, primarily commercial and industrial property.
	1996	Historical Topographic Map: San Leandro (7.5-minute)	There are no markings on Site indicating structures or other features.	Same as previous topographic map description.
		City Directory	The City Directory for this decade lists private citizens at the addresses 14143, 14173 and 14193 Washington Avenue. A one-time listing of Falcon Lumber & Wholesale Inc. is listed in 1992 at the address 14193 Washington Avenue. Big C Cocktail Lounge (or similar) is listed at 14251 Washington Avenue and San Leandro Rental Service is listed at 14273 Washington Avenue.	N/A
2000s	2005	EDR Aerial Photograph	The structure on Parcel 4 in the southeast portion formerly occupied by the Big C Lounge is no longer present. The area formerly occupied by a residence (Parcel 3, 14193 Washington Avenue) in the northern portion appears to be paved with concrete. There is evidence that the San Leandro Rental Service tenant has equipment staged throughout the majority of the Site (Parcels 3 through 7).	Same as previous aerial photograph description.
	2009	EDR Aerial Photograph	The Site resembles present-day conditions with Building A (office/shop structure) in the southeast corner, Building B (garage) in the center, and Buildings C and D (residential structures on Parcels 1 and 2). Now being stored on Site are RVs, consistent with the former tenant. At the northernmost residence, 14143 Washington Avenue, there are additional sheds (labeled Building E on Figure 2) located in the western portion of this Parcel 1.	Same as previous aerial photograph description.

Summary of Historical Sources				
Decade	**Year**	**Source**	**Site Description**	**Vicinity Description**
		City Directory	The City Directory for this decade lists private residences at the addresses 14143, 14173 and 14205 Washington Avenue. A new listing for 14143 Washington Avenue is Zermeno's Custom Ironworks, a current tenant. United Rentals is listed in 2000 and 2002 for the address 14273 Washington Avenue.	N/A
2010s	2012	Historical Topographic Map: San Leandro (7.5-minute)	Same as previous topographic map description.	Same as previous topographic map description.
	2012	EDR Aerial Photograph	Same as previous aerial photograph description.	Same as previous aerial photograph description.
	2016	EDR Aerial Photograph	The Site resemble current conditions, which are the same as the previous aerial photograph description.	Same as previous aerial photograph description.
		City Directory	The City Directory for this decade lists private residences at the addresses 14143 and 14173 Washington Avenue, but also lists Zermino [sic] Iron Works as a tenant at 14143 Washington Ave. There are no listings for the RV rental tenant.	N/A
	2020	Google Earth	A June 2020 Google Earth image shows the Site empty of previously observed RVs.	N/A

5. Current Site Conditions

Roux representatives conducted a reconnaissance of the Site and surrounding areas on February 9, 2021. During the Site visit, Roux representatives Mr. Richard Maxwell and Ms. Jessica Aguayo met with Mr. Tom Damaschino, the Seller/Owner representative. Roux revisited the Site on February 12, 2021 and spoke with Mr. Al Zermeno about the facility located in the western portion of Parcel 1 (14143 Washington Avenue). Roux also visually and/or physically observed adjoining properties from reasonably accessible locations on the Site and public thoroughfares. During the site reconnaissance, the weather was cloudy, and the temperature was approximately 62° Fahrenheit. The following sections summarize observations during the inspection. Roux was granted permission by Mr. Damaschino and Mr. Zermeno to document the Site Reconnaissance with photographs. These photographs are provided in Appendix I.

During the Site visit, Mr. Damaschino suggested that the current Owner, Mr. Victor Baldi, would be able to answer several questions about the Site history. Roux presented a series of questions in email to Mr. Baldi, through the representative Mr. Damaschino on February 17, 2021. Roux received responses to several of the questions posed and those responses are incorporated throughout this Report.

Roux conducted a third Site visit on August 11, 2021 to confirm that Site operations and conditions had not substantially changed since the last reconnaissance prior to finalization of the Phase I ESA report.

5.1 Site Reconnaissance

For the purposes of this discussion, the Site is currently divided into the following three separate areas 1) Parcel 1 – 14143 Washington Avenue; 2) Parcel 2 – 14173 Washington Avenue; and 3) Parcels 3 to 7 – 14273 Washington Avenue.

Parcel 1 – 14143 Washington Avenue

This portion of the Site contains a single family residence located at the front (eastern portion) along Washington Avenue. The residence is a single-story wooden structure. In the rear portion of this parcel is Zermeno's Custom Ironworks, at the address 14143-A Washington Avenue. Mr. Zermeno, the resident and owner, stated that he has been at the property and doing ironwork for more than 20 years. The ironwork operation generally includes taking raw metal and converting it into metal fences. The facility consists of a series of simple metal roof structures and storage containers along with a small office building. The flooring, both inside and outside the buildings, consisted of a combination of concrete flooring and bare soil.

Roux observed miscellaneous paints, cleaners, and lubricating/cutting oils, all in consumer commodity sized containers throughout the facility. Housekeeping was observed to be generally poor in regard to secondary containment and proper storage of chemicals. Also observed were multiple saws, compressed air cylinders of various sizes for acetylene and oxygen, cables, multiple compressors (at least one in use and others unused), ladders, pieces of metal fence, and other miscellaneous tools and equipment. Roux observed approximately 40-50 empty 55-gallons drums that Mr. Zermeno stated were former milk or "butteroil" drums that are delivered to the Site empty and he modifies to make barbeques out of them.

Parcel 2 – 14173 Washington Avenue

This portion of the Site contains a single family residence located at the front (eastern portion) along Washington Avenue and separate garage structure in the rear (western portion). The garage structure appeared to be utilized for vehicle/equipment maintenance and storage. Roux observed an end-dump trailer parked in the driveway on pavers. Isolated spots of staining, presumably from parking of the residence's

vehicles, were observed in this driveway. An RV was parked in the rear and appears to be utilized as a semi-permanent living/work space and Roux observed sanitary wastewater discharged from the RV in the yard.

Parcels 3 to 7 – 14273 Washington Avenue

This portion of the Site is currently vacant as the most recent tenant, Apollo RVs. Building A located in the southeast portion contains a garage in the eastern half, likely used for vehicle and equipment maintenance, that is accessible from the front by four large roll up doors. The western half of Building A is a two-story structure that includes office space, a reception area, and a break/dining room. The north (front) side of Building a has an awning that was formerly the location of a fuel dispenser island serviced by Tanks #1, #2 and #3.

A second structure, Building B, is located in the center of the Site and is a tall metal-sided structure formerly used for washing the RVs. There is a large drain in the middle of the structure that leads to an oil and water separator located on the east side of the structure.

Roux observed two ASTs located outside the northwest corner of Building A. One is a split-tank 2,000-gallon (1,000-gallon oil and 1,000-gallon diesel) AST and the other is an approximately 500-gallon propane tank. Neither of these ASTs are actively used.

The majority of this Site is paved concrete in moderate to poor condition with many areas of the pavement cracked and uneven. Limited areas of staining were observed. Several large asphalt patched areas were observed indicating previous disturbances and are likely the result of deteriorating concrete that was repaired.

Also observed were several concrete features including a depressed loading dock and several retaining curbs/walls along the western boundary (Photos 35 and 36) and two concrete berms located along the south side of Building A (Photos 25). According to Mr. Baldi, the previous tenant United Rentals used the retaining walls to store sand and gravel that were part of a portable batch plant for making concrete. Mr. Baldi also identified the concrete berms at the south side of Building A as former support for an aboveground waste oil tanks. Roux has not seen any other documentation regarding those potential ASTs, and they appear to be different aboveground tanks than the waste oil UST (Tank #4) that was removed from this area in 1998.

The Site is bounded by rod iron fencing, metal chain link fencing and masonry walls. Other features observed include light poles, storm drains, traffic bollards, garbage bins and a safe.

5.2 Phase I ESA Observations

During Site reconnaissance, Roux personnel attempt to identify any environmental features that may be relevant in the context of the Phase I ESA. The features identified are summarized in the table below. Any such features are discussed in the following subsections.

Feature	Observed on the Site	Observed on an Adjacent Property	Not Observed at the Site or Adjacent Property
Areas of stressed vegetation			X
Areas which receive flood or storm water from potentially contaminated areas	X		
Air Compressors	X		

Feature	Observed on the Site	Observed on an Adjacent Property	Not Observed at the Site or Adjacent Property
Chemical Storage	X		
Drainage Swales and Culverts			X
Discharge Areas			X
Discolored or Spill Areas			X
Drums (55 Gallons or Larger)	X		
Electrical Transformers		X	
Former Agricultural Applied Pesticide Area			X
Hydraulic Lifts			X
Incinerators			X
Irregular Pavement Features	X		
Landfills or Landfarms			X
Loading and Unloading Areas	X		
Non-Contact Cooling Water Discharge			X
Oil-Water Separator(s)	X		
Open Areas Away from Production Areas			X
Process Area Sinks and Piping			X
Rail Cars/Railroad Spurs		X	
Septic Systems Leach Fields or Seepage Pits			X
Silos			X
Sprayfields			X
Storm Sewer and Spill Containment Collection System			X
Storm Water Detention Pond			X
Surface Impoundments and Lagoons			X
Underground / Aboveground Storage Tanks and Associated Piping	X		
Vapor Intrusion	X		
Waste Piles			X

5.2.1 Areas which Receive Flood or Storm Water from Potential Contaminated Areas

Multiple storm drains were observed throughout the paved areas of Parcels 3 through 7. Evidence of improper discharge was not observed in the vicinity of these features during the Site reconnaissance; however, the historical storage of equipment and vehicles throughout the Site may have resulted in releases (such as oil leaks from parked vehicles) being washed into these drainage systems during storm events. Mr. Baldi noted that gray/black water from the RVs were disposed of off-Site at a local facility called Trailer Haven in San Leandro. Based on the lack of information indicating a specific non-stormwater discharge and limited staining observed throughout the pavement, this feature is not considered to represent a significant environmental concern.

5.2.2 Air Compressors

Roux observed air compressors in the garage areas of 14273 and 14173 Washington Avenue and in the rear portion of 14143 Washington Avenue. None of these air compressors were in use at the time of the Site reconnaissance. Small amounts of hydraulic fluid may be stored within these pieces of equipment. No staining or other evidence of a release were observed in the vicinities of each compressor. Based on the lack of information indicated a chemical release, these features are not considered to represent a significant environmental concern.

5.2.3 Chemical Storage

Roux observed current chemical storage in the garages and workshop areas of 14143 and 14173 Washington Avenue. Motor vehicle fuels, propane canisters, lubricant/cutting oils, parts cleaners, miscellaneous paints, and other miscellaneous chemicals were observed primarily in consumer commodity sized containers. Roux observed limited staining of concrete in many areas where these chemicals were stored and in general, housekeeping was observed to be poor without secondary containment and open containers. In general, spills and releases from residential operations and vehicles parked on Site would likely be considered de minimis considering the quantities involved with the residence at 14117 Washington Avenue.

Considering the long term (20+ years) operation of Zermeno's Custom Ironworks that has likely included the consistent storage and use of lubricants, oils, paints and potential solvents, in addition to the relatively poor housekeeping, bare soil, drum storage, vehicle storage and maintenance, the potential risk for sustained leaks or spills of chemicals is considered higher. As a result, this facility is considered a REC in the context of this Phase I ESA.

5.2.4 Drums

Roux observed an estimated 30 to 40 55-gallon drums in the rear (western) portion of Parcel 1 behind the Zermenos facility. According to Mr. Zermeno, these drums were delivered to the Site empty and he cuts them in half and converts them into barbeques for sale. These drums are not considered to represent a significant environmental concern.

5.2.5 Electrical Transformers

Roux did not observe any electrical transformers located on-Site but did observe a pole-mounted transformer on the power poles located along Washington Avenue. Electricity to the Site appears to be provided from the power poles located off Site.

Roux did observe an emergency transfer switch located in the garage area of 14273 Washington Avenue. No staining was observed around this feature and Roux does not consider it to represent a significant environmental concern.

5.2.6 Irregular Pavement Features

Roux observed an irregular concrete cut and patch feature located at the entry of the western most roll-up door in the garage of Building A (See Photo 22). Mr. Baldi identified this area was damaged by the previous equipment rental company while testing jack hammers and was repaired.

Also observed on Site were four areas where asphalt replaced the surrounding concrete pavement. Two of these asphalt areas are located north of the western portion of Building A, one is located in the southwest corner of the Site, and the other is located in the northwest corner of the Site. It is suspected that these asphalt patches are the result of repairs to damaged or deteriorating concrete.

5.2.7 Loading and Unloading Areas

Located along the western edge of the Site is a depressed loading dock. There was no standing water in this dock and Roux did not observe any drains. The purpose of this depressed dock is unknown, and it appears that it was only utilized by the former equipment rental tenants and not the RV rental tenant. Based on the lack of information indicating a chemical release, this feature is not considered to represent a significant environmental concern.

5.2.8 Oil-Water Separator

Roux observed an oil-water separator adjacent to the east of Building B, the maintenance garage. The oil-water separator was not opened for inspection at the time of the Site reconnaissance and no information was provided by the current tenant regarding its operation. Available records and historical aerials indicate that Building B was installed around 2007 and the oil-water separator was likely installed at the same time. Given the likely presence of petroleum products within the oil-water separator, it is considered a REC in the context of this Phase I ESA as discussed in Section 9.1 below.

5.2.9 Railroads

An active and historical railroad is present outside the western boundary of the Site. Historical records reviewed indicate that this railroad has been present since pre-1900. Soils along rail ways are often contaminated with levels of heavy metals, TPH, PCBs, and/or chlorinated pesticides and herbicides. Given that the railroad appears to have always been located off-Site, but within approximately 50 feet of the western boundary, this railroad is not considered a REC in the context of this Phase I.

5.2.10 Underground / Aboveground Storage Tanks and Associated Piping

Based on a review of available records provided by the Client and downloaded from GeoTracker, four USTs previously existed on the Site. Figure 2 provides the approximate locations of each former UST.

Summaries of the installation, removal, confirmation sampling and soil excavation activities related to these USTs are provided in Sections 3.3.2 and Section 7.0.

Summary of Underground Storage Tanks								
Tank ID	Status	Year Installed	Year Removed	Capacity (gallons)	Product Stored	Location	Construction	Secondary Containment
#1	Removed	Circa 1964	1991	1,000	Diesel	North of the eastern end of Building A.	Steel	Unknown
#2	Removed	1971	1992	1,000	Diesel	North of the western end of the Building A	Steel	Unknown
#3	Removed	Circa 1974	1992	5,000	Gasoline	North of the western end of the Building A	Steel	Unknown
#4	Removed	Unknown	1998	550	Waste Oil	Alleyway behind Building A, along south boundary of Site	Steel	Unknown

Summary of Aboveground Storage Tanks						
Status	Year Installed	Approximate Capacity (gallons)	Product Stored	Location	Construction	Secondary Containment
Inactive	1991	2,000 split tank	Diesel and Gasoline	Outside the northwest corner of Building A	Steel (Trusco Supervault™)	Metal beam
Inactive	Circa 1982	Est. 550	Propane	Outside the northwest corner of Building A	Steel	None

Available records reviewed suggest that both ASTs have been inactive since the mid-2010s and that the gasoline/diesel AST was cleaned out in 2013. It is unknown if the propane AST has been emptied. Significant staining or evidence of a release was not observed at either AST. No drains or other subsurface conduits were observed in the immediate vicinity. Bulk storage on-Site does not constitutes a REC in the context of this Phase I ESA.

5.3 Vapor Intrusion

Roux performed a vapor migration/intrusion pathway assessment. Operation of multiple USTs at the Site during the equipment rental operations constitutes a known source for potential vapor intrusion. Adjoining and nearby properties (specifically former LUST sites to the southwest and southeast) may also constitute possible sources for vapor intrusion.

6. Adjoining and Nearby Properties

The facilities and improvements which are located immediately adjacent to the Site are provided in the following table. Selected adjoining and nearby properties are shown in Figure 2. Adjoining and nearby properties with potential environmental concerns are described in subsections below as needed.

Direction from Site	Improvements / Use (Addresses)	Environmental Concerns Identified
North	Light industrial operations including S&S Automotive, Pro-Smog Complete Auto Repair, and San Leandro Auto Upholstery	While not considered an environmental concern, S&S Automotive is discussed in Section 8.1.2.
Northeast	Washington Avenue followed by light industrial operations including Island Auto Towing and Auto Repair	While not considered an environmental concern, Island Auto Towing and Auto Repair is discussed in Section 8.1.2.
East	Washington Avenue followed by Larson Bro's Lumber and Public Storage	While not considered an environmental concern, Larson Bro's Lumber is discussed in Section 8.1.2.
Southeast	Clarks Home and Garden with a storage yard containing masonry, stone, rocks mulch and other landscaping materials	While not considered an environmental concern based on the closed LUST case, Clarks Home and Garden is discussed in Section 8.1.2.
Southwest	Railroad followed by industrial operations including A Beacon Roofing Supply Company and City of San Leandro Public Works. Further southwest is residential neighborhood	The railroad is not considered an environmental concern in the context of this Phase I ESA.
West	Railroad followed by a light industrial business park containing multiple distribution warehouses	The railroad is not considered an environmental concern in the context of this Phase I ESA.

6.1 Adjoining Property

A former patio construction tenant, TE Brown Inc and Morgan Brothers Patios, was located on the parcel immediately adjacent to the southeast at the address 14301-14305 Washington Avenue. A brief history of the LUST case, related investigations, and potential subsurface contamination are discussed in depth in Section 8.1.2.

Roux did not identify any other current adjoining properties that represent a significant environmental concern to the Site. Specific details on adjoining properties listed on regulatory databases are provided in Section 8.1.2.

6.2 Nearby Property

As discussed in Section 8.1.2, historical and current properties containing potential environmental concerns are identified.

7. Summary of Key Previous Investigations

The following sections provide a summary of previous environmental investigations conducted at the Site.

7.1 Report of Soil and Groundwater Investigation (ALLCAL, 1997)

Roux reviewed a Report of Soil and Groundwater Investigation prepared by ALLCAL Environmental and dated May 14, 1997. This report was prepared for Mr. Victor Baldi Jr. of San Leandro Rental. It appears that the purpose of this report was to investigate soil and groundwater conditions at the Site, 14273 Washington Ave, following removal of three USTs and ultimately obtain site closure of the Site from the SLFD and SFB RWQCB.

This report provided a history of the three USTs (Tanks #1, #2 and #3) removed from the Site, as summarized from information provided by San Leandro Rental and from files maintained by the SLFD. Summaries of each former UST removal are provided above in Section 3.3.2.

ALLCAL submitted a Workplan for this investigation to the SLFD for their approval in April 1997. The investigation included five (5) borings to total depths of approximately 25 feet bgs, with soil samples collected from depths of 13 and 18 feet bgs and a grab groundwater sample from each boring. All soil and groundwater samples were analyzed for TPH-g, TPH-d, BTEX and Methyl tert-butyl ether (MTBE) by McCampbell Analytical, Inc. in Pacheco, California. This report and a figure showing the former UST and sample locations is provided in Appendix H.

ALLCAL reported that the laboratory analysis results for the soil samples were all non-detect, with the exception of the 18 foot sample from SB-5, which had a detection of TPH-d (8.3 ppm). ALLCAL reported that the TPH-g, BTEX and MTBE were nondetectable for all grab groundwater samples with the exception of xylenes at three locations ranging from 0.63 to 1.0 parts per billion (ppb).

TPH-d was detected in the groundwater samples from borings SB-2, SB-4 and SB-5 at concentrations ranging from 90 to 2,800 ppb. It was noted that not enough water sample was collected from the boring of SB-3 for chemical analysis for TPH-d.

ALLCAL concluded their report by recommending site closure be granted by the SLFD because: 1) the primary sources of contamination to soil and groundwater, the three former USTs and approximately 2,450 cubic yards of soil were removed and there is no evidence that sufficient product remains in the soil; 2) the mass of remaining fuel plumes will be “cleaned-up by passive bioremediation processes”; and 3) the “results of the investigation suggest there are no significant soil or groundwater BTEX plumes at the subject site, if any” (ALLCAL, 1997).

This report appears to have resulted in the Site receiving Case Closure for its LUST listing as of 7/8/1997. Given that these three USTs were removed and received regulatory closure, they are considered a hREC in the context of this Phase I.

7.2 Underground Tank Removal (J. Quarle & Associates, 1998)

Roux reviewed an Underground Tank Removal letter report prepared by Quarle and dated September 1998. This report was prepared for Mr. Vic Baldi. This letter report documented the removal of one 550-gallon waste oil tank (Tank #4) located along the southern boundary of the Site in the alleyway behind 14273

Washington Avenue (Building A). The tank was excavated and removed from the property on August 31, 1998 under the direction of the SLFD, Hazardous Materials Division (HMD). One confirmation sample was taken from the below the excavation and analyzed for TPH, BTEX, MTBE, halogenated volatile organic compounds (VOCs) and metals. As reported by Quarle, the results for the confirmation sampling were non-detect for the TPH, BTEX, MTBE, and halogenated VOC analysis and below applicable screening levels for the metals analysis.

This letter report states that the test results were faxed to Mr. Carl Buche of the SLFD MHD and, "Mr. Buche gave verbal authorization for the excavation to be backfilled" and the excavation was backfilled on September 10, 1998 with four yards of base rock. Roux has not reviewed documentation that this UST received any regulatory closure from the SFB RWQCB or if any such closure was required.

Given that this specific UST, Tank #4, does not appear to have received formal regulatory closure, it is considered a REC in the context of this Phase I.

7.3 Limited Phase II Subsurface Investigation Report (Roux, 2021)

Roux conducted a Limited Phase II Subsurface Investigation for FIRT to investigate the three RECs and one hREC identified in this Phase I ESA. The investigation also included an asbestos containing material (ACM) and other regulated materials investigation at the Site. The results of the Limited Phase II Subsurface Investigation did not identify conditions directly related to the RECs that indicate significant subsurface contamination resulting from these facilities. The ACM and other regulated materials survey identified building materials in all structures on Site that should be properly addressed by appropriately qualified professionals prior to renovation or demolition activities. The Limited Phase II Subsurface Investigation Report is included in Appendix H.

8. Database Records Review

8.1 Standard Environmental Record Sources

According to ASTM Standard E1527-13, the purpose of reviewing regulatory records is to obtain and review records that will help identify *recognized environmental conditions* in connection with the Site. In addition, some records to be reviewed pertain not only to the Site, but also to properties within an additional "approximate minimum search distance" in order to help assess the likelihood of problems from migrating hazardous substances or petroleum products. The basis of the "approximate minimum search distance" is the Site boundary.

Roux retained EDR of Shelton, Connecticut to provide an ASTM Radius Map Report (EDR Report) for this Site. This report is a computerized search of select state and federal environmental databases that identify various properties with a record of environmental activity. Roux reviewed the report and summarized the relevant findings in the following sections. A copy of the compiled EDR Report has been included as Appendix F. The EDR report includes a detailed description of each of the databases searched, providing a summary of the type of information provided by each.

The following section describes the findings of the database search. Roux used professional judgement in determining which EDR-listed sites to include in the narrative of this report. Facilities adjoining the Site were included due to their proximity to the Site and the potential for surface water discharges (e.g., storm water runoff, surface water effluent discharges) to enter the Site or through the migration of groundwater. Sites with listings indicative of a release (e.g., SHWS, LUST, RELEASE) are likewise discussed below. Nonadjacent facilities with database listings not necessarily indicative of a release (hazardous waste generator, FINDS, ECHO, NPDES, HAZNET, AST, or UST) will not be discussed unless considered potentially relevant in context of the Phase I ESA.

8.1.1 Site (Target Property)

Zermeno's Custom Ironworks, located on Parcel 1 at 14143 Washington Avenue, was identified in the California Environmental Reporting System (CERS) and FINDS databases. Zermeno's Custom Ironworks was listed as a chemical storage facility under oversight of the City of San Leandro. No violations were noted in the database and no release cases or other significant environmental concerns were noted in the provided documents.

San Leandro Rental, formerly located on Parcels 3 to 7 at 14273 Washington Avenue, was identified in the LUST, RGA LUST, CORTESE, SWEEPS UST, HWTS, HAZNET, and FINDS databases. According to the listings, San Leandro Rental operated three USTs, consisting of one 5,000-gallon gasoline tank and two 1,000-gallon diesel tanks. Additional records have identified a fourth former UST, a 550-gallon waste oil tank. Refer to Section 3.3.2 for discussion of records pertaining to the former tanks and closed LUST case for the Site. According to the HWTS and HAZNET listings, San Leandro Rental generated waste oil and mixed oil, aqueous solution with total organic residues less than 10 percent, and other empty containers 30 gallons or more. The remaining listings are associated with hazardous waste generation, former UST operation, or the LUST case. No pertinent information was provided in these databases that are not already included in this report.

United Rentals Inc. #053, formerly located on Parcels 3 to 7 at 14273 Washington Avenue, was identified in the HWTS, HAZNET, WDS, and CIWQS databases. Wastes generated by this tenant include waste oil and

mixed oil, off-specification, aged or surplus organics, and other organic solids. According to the WDS listing, United Rentals was an industrial facility with a continuous or seasonal discharge under Waste Discharge Requirements. The WDS facility status is listed as active though this operator no longer operates at the Site. According to the CIWQS listing, United Rentals was issued an industrial stormwater permit in 2003 with termination of the storm water permit in 2009. Based on the lack of information indicating a release of hazardous substances or petroleum products, these listings are not expected to represent a significant environmental concern.

Apollo Motorhome Holidays, LLC, located on Parcels 3 to 7 at 14273 Washington Avenue, was identified in the CERS, RCRA NONGEN/NLR, FINDS, ECHO, and HWTS databases. No hazardous wastes were listed, and no violations were noted. Based on the lack of information indicating significant hazardous waste generation, these listings are not expected to represent a significant environmental concern.

R. L. Stevens Company, located in Parcels 3 to 7 at 14273 Washington Avenue, was identified in the HWTS and HAZNET databases. This tenant reportedly generated hydrocarbon solvent wastes. No additional pertinent information was provided. Based on the lack of information indicating a release of hazardous substances or petroleum products, these listings are not expected to represent a significant environmental concern.

8.1.2 Adjoining and Nearby Properties

Discussions of adjoining and nearby properties of potential environmental concern are provided below.

- **TE Brown Inc and Morgan Brothers Patios (14301-14305 Washington Avenue)**, located adjacent to the southeast, were identified in the HIST UST, SWEEPS UST, CA FID UST, LUST, CORTESE, HIST CORTESE, and CERS databases. According the GeoTracker database, a release of gasoline was remediated and closed under oversight of the City of San Leandro. GeoTracker records indicate a 350-gallon gasoline tank was removed in 1991 and confirmation sampling identified elevated TPH-g and BTEX in soil. In 2004, two soil samples were collected in the approximate location of the tank excavation and analyzed for TPH-g, BTEX, and MTBE. TPH-g was reported at a maximum concentration of 72 milligrams per kilogram (mg/kg) at 15 feet bgs. BTEX and MTBE were not detected above reporting limits. Groundwater grab samples were collected from the same locations and analyzed for TPH-g, BTEX, and MTBE. TPH-g was reported at a maximum concentration of 25,000 micrograms per liter (µg/L). Other constituents identified include toluene at 17 µg/L, ethylbenzene at 930 µg/L, and xylenes at 420 µg/L. No other constituents of concern were reported in groundwater. According to the case closure summary prepared by the City of San Leandro, the groundwater impact was “limited” and soil impact was “negligible”. No further action was required by the City of San Leandro and case closure was issued in 2005. During the Site reconnaissance, Roux did not observe any indications of subsurface investigation at the former UST facility, such as patched borings or monitoring well vaults. Absent any additional information, Roux does not consider the former UST facility to be an environmental concern in the context of the Phase I ESA.

- **Miracle Auto Painting (14141 Washington Avenue),** located adjacent to the northwest, was identified in the HWTS and HAZNET databases for generation of oxygenated solvents and unspecified solvent mixture wastes. Specifically documented years of generation included in the EDR report are 1983 through 1985. No release cases or other significant environmental concerns were noted.

- **S & S Automotive (14127 Washington Avenue)**, located adjacent to the northwest, was identified in the RCRA NONGEN/NLR, CERS, and CERS HAZ WASTE. According to the CERS listing, several waste labeling and administrative violations related to hazardous or universal waste records and management were identified and were later corrected. These listings appear to be associated with

the hazardous waste handling part of auto repair operations and are not expected to represent a significant environmental concern.

- **Island Auto & Body Repair Inc. and Miracle Auto Painting (14140 Washington Avenue)**, located adjacent to the northeast**,** were identified in the RCRA NONGEN/NLR, RCRA-SQG, FINDS, ECHO HWTS, HAZNET, ECHO, EMI, CERS, and CERS HAZ WASTE databases. Island Auto & Body Repair was issued several notices of violation for hazardous waste labeling, improper waste storage/management, administrative and housekeeping violations that were later corrected. There is no indication of a specific release or spill of hazardous materials at this off-Site location; therefore, this listing and these violations are not expected to represent a significant environmental concern. Miracle Auto Painting was identified as a small quantity generator and air emissions site. No violations were noted. These listings appear to be associated with hazardous waste handling and operations of permitted equipment as part of auto repair/maintenance operations and are not expected to represent a significant environmental concern.

- **Larson Brothers Lumber (14200 Washington Avenue)**, located adjacent to the northeast, was identified in the LUST, CORTESE, HIST CORTESE, CERS, CA FID UST, SWEEPS UST, HAZNET, HWTS, RCRA-SQG, FINDS, and ECHO databases. According to information obtained from the SWRCB GeoTracker online database, a release of gasoline was remediated and closed under oversight of the City of San Leandro (ID T0600100814). According to the *Site Closure Summary* (dated June 2015), one 1,000-gallon gasoline tank was removed from the site and confirmation soil samples identified MTBE at 0.097 mg/kg and lead at 9.7 mg/kg. TPH-g and BTEX was not detected above reporting limits. Based on the low concentrations identified, the City of San Leandro determined that no further action was required and issued closure. Based on the relative distance to the Site, regulatory status, and media impacted (soil only), this nearby release case is not expected to represent a significant environmental concern.

- **Ronin Product Development Labs (14130 Washington Avenue)**, located adjacent to the northeast, was identified in the RCRA NONGEN/NLR database. No hazardous wastes violations were noted. No release cases or other significant environmental concerns were noted.

- **Engel Holdings Inc DBA Cabrillo Hoist, also listed as Superior Gunite (14160 Washington Avenue)**, located adjacent to the northeast, was identified in the RCRA NONGEN/NLR, HWTS, HAZNET, CERS HAZ WASTE, and CERS databases. No hazardous waste violations were noted. No release cases or other significant environmental concerns were noted.

- **City of San Leandro Public Works Center, Alameda County HHW Program (14200 Chapman Road)**, located adjacent to the southwest, was identified in the RCRA NONGEN/NLR, UST, SWEEPS UST, HIST UST, CA FID UST, CERS HAZ WASTE, CERS TANKS, and CERS databases. No hazardous wastes were identified in the RCRA listing. According to the UST listings, this site has been equipped with six tanks, including two 20,000-gallon gasoline tanks, one 12,000-gallon gasoline tank, one 12,000-gallon diesel tank, one 550-gallon waste oil tank, and one 550-gallon unspecified fuel tank. According to the CERS listings, one kerosene UST was removed in 2015. Information indicating removal of UST systems was not identified. Based on the information reviewed by Roux, the former UST facility has not been the subject of subsurface investigation and no documented releases have been reported. Based on the relative distance to the Site and hydrogeologically down-gradient location, this nearby release case is not expected to represent a significant environmental concern.

- **295 139th Avenue**, located approximately 270 feet to the northwest, was identified in the Alameda County CS and CPS-SLIC databases. According to the GeoTracker database, a release of petroleum hydrocarbons and VOCs is currently being assessed under oversight of the Alameda County Department of Environmental Health's (ACDEH) Local Oversight Program (LOP). According to the most recent report (dated June 2017), the closest groundwater sampling location to the Site,

identified as SB-5, is located approximately 300 feet to the north-northwest and was last sampled in 2017. Groundwater sampling identified PCE at 5.9 µg/L at SB-5 in 2017. Soil sampling was also conducted at SB-5 in 2017; however, TPH concentrations reported were low (less than 50 mg/kg). Based on the most recent sampling information, relative distance to the Site, and hydrogeologically cross-gradient location, this nearby release case is not expected to represent a significant environmental concern.

- **DWA Plume – San Leandro (Groundwater Contamination)**, mapped approximately 800 feet to the east of the Site, was identified in the RESPONSE, ENVIROSTOR, and HIST CAL-SITES databases. Records available on the DTSC EnviroStor online database indicate this release site is located near 1799 Factor Avenue, approximately one mile west-southwest of the Site. The neighboring residential area to the southeast (along Cedar Avenue) was identified as an operable unit. According to EnviroStor records, a hydrogen release compound injection site associated with the release case was located along 139th Avenue, approximately 700 feet northeast of the Site. Based on the relative distance to the release area (approximately one mile), this nearby listing is not expected to represent a significant environmental concern.

8.1.3 Orphan Sites

The EDR Report includes a section addressing "Orphan Sites." Orphan sites are sites, which, due to incomplete geographic location data, incomplete address information or incorrect address information, cannot be plotted correctly. The database report identified five unmapped facilities.

- **City of San Leandro – Washington Station (14000 Block, Washington)** was identified in the FINDS, ECHO, and RCRA-SQG databases as a stormwater pumping station. The NAICS description code is for a sewage treatment facility. No release cases, violations, or other significant environmental concerns were noted.

- **City of San Leandro Dept Environmental Services (Intersection of Washington Avenue and Interstate 880)** was identified in the HAZNET and HWTS databases for generation of contaminated soils from site cleanup. No release cases or other significant environmental concerns were noted.

- **San Leandro Investors Group (Perauta Ave/San Leandro Blvd)** was identified in the CPS-SLIC database. This site appears to be located at the intersection of Peralta Avenue and San Leandro Boulevard, approximately 1.75 miles northwest of the Site. Based on the relative distance, this listing is not expected to represent a significant environmental concern.

- **Washington Ave Improvements Project (Washington Avenue & Lewelling Boulevard)** was identified as a CIWQS listing for an inactive stormwater permit. No release cases or other significant environmental concerns were noted

9. Findings

Roux has performed this Phase I ESA in general compliance with the scope and limitations of ASTM Standard Practice E1527-13. Roux separated the findings of this assessment into the following four categories: *recognized environmental conditions*, *controlled recognized environmental conditions*, *historical recognized environmental conditions* and *other environmental features*.

9.1 Data Gaps

During conduct of this ESA, the following data gaps, as defined in ASTM Standard E1527-13 were identified:

- The timing of the report did not allow for all contacted agencies to respond to the most recent records requests issued. This data gap is not considered significant due to sufficient information available from previous records requests, environmental reports, the EDR report, and city, county, and state websites.

9.2 Recognized Environmental Conditions

Based on the information obtained through the performance of this ESA and the March 2021 Limited Phase II Subsurface Investigation, Roux did not identify RECs in connection with the current and historical operations at the Site or adjacent properties.

9.3 Controlled Recognized Environmental Conditions

Roux did not identify known or suspected cRECs in connection with the current and historical operations at the Site.

9.4 Historical Recognized Environmental Conditions

Roux identified the following hRECs in connection with the current and historical operations at the Site or adjacent properties. To the extent possible, the locations of the hRECs are shown in Figure 2.

hREC 1 – Custom Ironwork Facility. Located in the western half of Parcel 1, at the address 14143-A Washington Avenue, is the facility Zermeno's Custom Ironworks (Building E on Figure 2). Consisting of several simple metal structures, this facility primarily produces iron gates and fences. According to Mr. Al Zermano, owner and resident at 14143 Washington Avenue, he has been conducting ironwork at the Site for over 20 years. The flooring, both inside and outside the buildings, consisted of a combination of concrete flooring and bare soil. Roux observed miscellaneous paints, cleaners, and lubricating/cutting oils, all in consumer commodity sized containers throughout the facility. Housekeeping was observed to be generally poor in regard to secondary containment and proper storage of chemicals. Also observed were multiple saws, compressed air cylinders of various sizes, cables, multiple inactive compressors, stock metal, and other miscellaneous tools and equipment. Considering the long term (20+ years) operation that has likely included the storage and use of lubricants, oils, paints and potential solvents, in addition to the relatively poor housekeeping, bare soil, drum storage, vehicle storage and maintenance, this facility was determined to pose a potential concern in relation to the Site. The March 2021 Limited Phase II Subsurface Investigation addressed this area and did not indicate subsurface contamination resulting from this item; therefore, this facility is considered an hREC in the context of this Phase I ESA

hREC 2 – Oil-water Separator. Roux observed a below-ground oil-water separator located south of Building B. It is estimated that this feature was installed along with Building B around 2007. Wastewater from the former wash station in Building B likely entered a floor drain in the wash bay and was discharged into the oil-water separator prior to being discharged into the municipal sewer system. The oil-water separator was not opened for inspection at the time of the Site reconnaissance and no significant staining was observed around the feature. Historical waste fluids including motor vehicle fuels, new and used engine oil, hydraulic oil, coolant, battery acid, power steering fluid, and other fluids may have been discharged into the oil-water separator during washing activities. Wastewater processed in the oil-water separator would potentially be impacted with petroleum-related products and VOCs, and therefore there is a reasonable likelihood that a release could have occurred. The March 2021 Limited Phase II Subsurface Investigation addressed this area and did not indicate subsurface contamination resulting from this item; therefore, this facility is considered an hREC in the context of this Phase I ESA

hREC 3 – Former UST without Regulatory Closure. Of the four former USTs known to have existed on Site, reviewed records indicated that three of the four USTs received regulatory closure. One UST, a reported 550-gallon waste oil tank located along the southern boundary behind Building A, was removed in 1998 under the oversight of the SLFD. Confirmation soil samples from this excavation were non-detect for TPH, BTEX, MTBE and halogenated VOCs and below applicable screening levels for metals. Roux did not review a formal closure letter from the SLFD or the SFB RWQCB for this tank; however, the Underground Tank Removal letter prepared by Quarle stated that the confirmation soil results were faxed to Mr. Carl Buche of the SLFD and, “Mr. Buche gave verbal authorization for the excavation to be backfilled” (Quarle, 1998). The March 2021 Limited Phase II Subsurface Investigation addressed this area and did not indicate subsurface contamination resulting from this item; therefore, this facility is considered an hREC in the context of this Phase I ESA

hREC 4 – Former USTs with Regulatory Closure. Three USTs, including two 1,000-gallon diesel tanks and one 5,000-gallon gasoline tank, were removed from the Site in 1991 and 1992. These USTs were utilized by the former San Leandro and United Rentals operations, likely to fill rental equipment and fleet vehicles. Historical records reviewed showed that these three USTs, referred to as Tanks #1, #2 and #3 in this Report, were removed under the oversight of the SLFD, and subsequently received regulatory closure from the SLFD and the SFB RWQCB in 1997. Upon removal of Tank #1 in 1991, contaminated soil was excavated to a depth of about 20 feet bgs and confirmation soil samples from the floor of this excavation detected TPH-d at concentrations up to 1,000 ppm. Following removal of Tanks #2 and #3 and a former pipeline trench in 1992, confirmation soil samples were generally non-detectable, with the exception of TPH-d at 460 ppm from a location in the pipeline trench adjacent to former location of Tank #1. As a result of this detection, additional excavation activities were conducted around the former Tank #1 area in 1992. The excavation reached the size of approximately 50 by 70 feet. The depth of this excavation is unknown. Final soil samples from this excavation sidewall detected TPH-g and TPH-d at concentrations up to 100 ppm and 1,300 ppm, respectively. The excavation was then backfilled. A soil and groundwater investigation conducted by ALLCAL in 1997 around the areas of these former USTs concluded that, “the results of this investigation suggest there are no significant soil or groundwater BTEX plumes at the subject site, if any”. This report noted that there were residual concentrations of TPH-g and TPH-d of 100 ppm and 1,300 ppm, respectively, and TPH-d was detected in groundwater at a maximum concentration of 2,800 ppb (ALLCAL, 1997). This investigation resulted in Site closure by the City of San Leandro and then the SFB RWQCB. Additionally, the March 2021 Limited Phase II Subsurface Investigation did not indicate subsurface contamination resulting from these facilities; therefore, this facility is considered an hREC in the context of this Phase I ESA.

9.5 Limited Phase II Subsurface Investigation

Roux conducted a Limited Phase II Subsurface Investigation for FIRT in March 2021 to investigate concerns identified in the initial Site walk and document review related to this Phase I ESA. The investigation also included an asbestos containing material (ACM) and other regulated materials investigation at the Site. The results of the Limited Phase II Subsurface Investigation did not identify conditions directly related to the concerns that indicate significant subsurface contamination resulting from these facilities. The ACM and other regulated materials survey identified building materials in all structures on Site that should be properly addressed by appropriately qualified professionals prior to renovation or demolition activities. The Limited Phase II Subsurface Investigation Report is included in Appendix H.

10. References

American Society for Testing Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-13)

ALLCAL Environmental (ALLCAL). *Report of Well Installation – Palace Garage 14336 Washington Avenue, San Leandro, CA 94566,* June 23, 2000.

Basics Environmental, Inc. (Basics). *Phase I Environmental Site Assessment at 295 139th Avenue, San Leandro*, December 4, 2015.

EDR, *The EDR Radius Map™ Report with GeoCheck®*, February 03, 2021

EDR, *The EDR Aerial Photo Decade Package*, February 03, 2021

EDR, *EDR Historical Topo Map Report*, February 03, 2021

EDR, *Certified Sanborn Map Report*, February 03, 2021

EDR, *The EDR-City Directory Abstract*, February 03, 2021

J. Quarle & Associates, Inc. (Quarle). *Underground Tank Removal – 14273 Washington Avenue, San Leandro,* September 1998.

Roux Associates, Inc. *Limited Phase II Subsurface Investigation Report,* March 2021.

11. Signature Of Environmental Professional

Roux performed this assessment in accordance with the generally accepted practices for environmental assessments at the time of implementation. Roux made a reasonable effort to ensure that the information presented in this report is materially complete and accurate.

Roux completed a Phase I ESA in general compliance with the scope and limitations of ASTM Practice E1527-13 of the commercial/residential property located at 14143-14273 Washington Avenue, San Leandro, California 94578.

“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” and,

“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.”

Roux performed this Phase I ESA by, or under direct supervision of, the undersigned environmental professionals.

Respectfully Submitted,

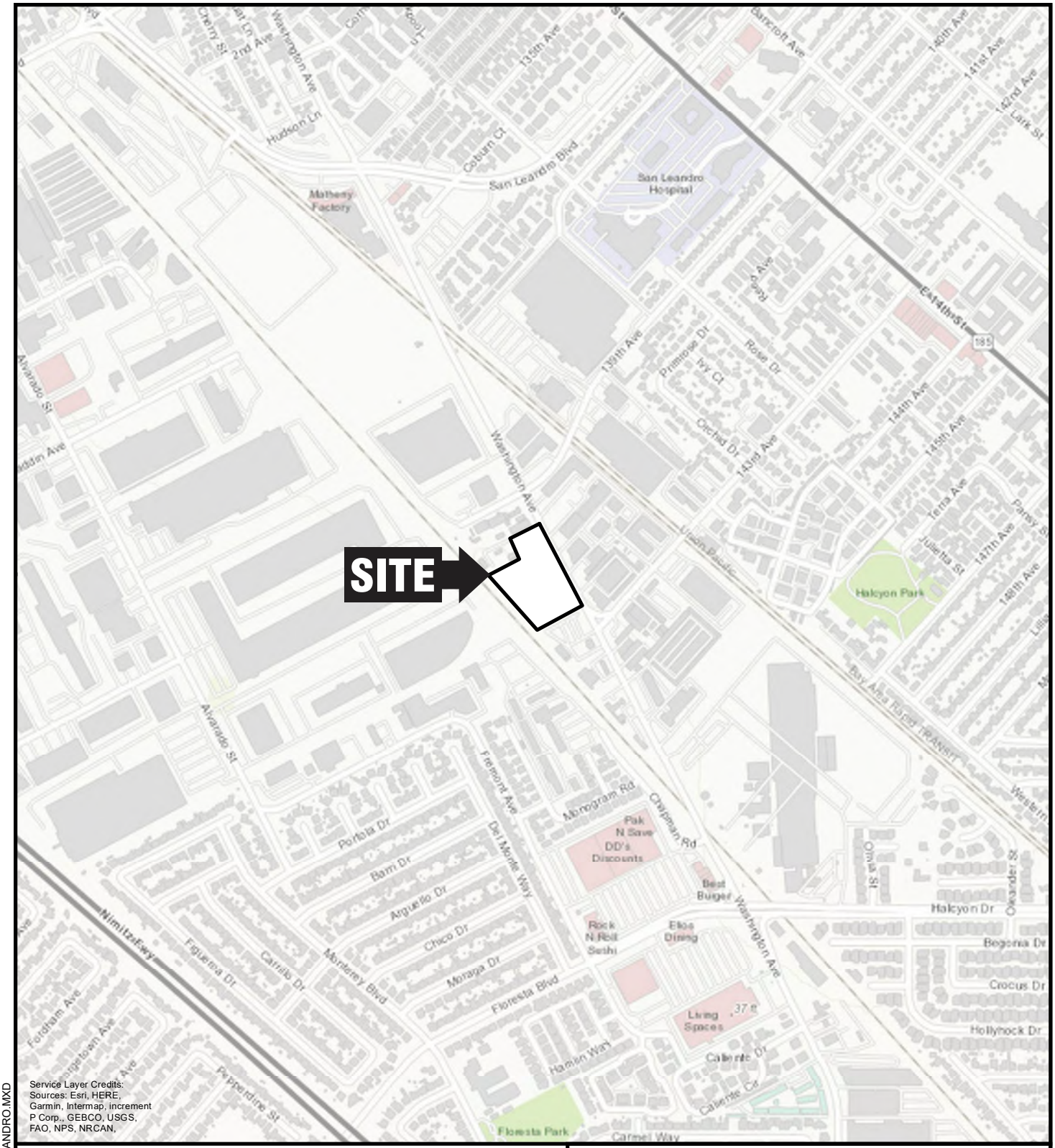
ROUX ASSOCIATES, INC.

Caelan Murphy
Senior Scientist

Rich Maxwell
Principal Geologist

FIGURES

1. Site Location Map
2. Site Plan



QUADRANGLE LOCATION

N

1,000 0 1,000'

Title:

SITE LOCATION MAP

14143-14273 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

Prepared for:

FIRST INDUSTRIAL REALTY TRUST

ROUX

Compiled by: O.B.	Date: 02/04/21
Prepared by: O.B.	Scale: AS SHOWN
Project Mgr: J.A.	Project: 3661.0003I000
File: 3661.0003I000_SITE LOCATION.mxd	

FIGURE 1

S:\GIS\PROJECTS\3661\0003L\100\FIGURE 1 - SAN LEANDRO.MXD

LEGEND

- APPROXIMATE SITE BOUNDARY
- APPROXIMATE PARCEL BOUNDARIES
- 1 — HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITION (hREC)
- APPROXIMATE LOCATIONS OF FORMER USTs
- B — BUILDING IDENTIFICATION

N

75' 0 75'

Title:

SITE PLAN

14143-14273 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

Prepared for:

FIRST INDUSTRIAL REALTY TRUST

ROUX

Compiled by: A.F.	Date: 08SEP2021	FIGURE
Prepared by: A.F.	Scale: AS SHOWN	2
Project Mgr: J.A.	Project: 3661.0003L	
File: 001_3361.0003L_SITE PLAN.DWG		

S:\CLIENTS\FIRST INDUSTRIAL REALTY\WASHINGTON AVE SAN LEANDRO\10CAD\001_3361.0003L_SITE PLAN.DWG

APPENDICES

A. Glossary of Terms
B. EDR Historical Topographic Maps
C. EDR Historical Aerial Photographs
D. EDR Certified Sanborn Report
E. EDR City Directory Image Report
F. EDR Radius Map Report with GeoCheck®
G. Regulatory Records Documentation
H. Pertinent Historical Documentation
I. Photographic Log

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

Hayward
2012
7.5-minute, 24000

San Leandro
2012
7.5-minute, 24000

1996 Source Sheets

San Leandro
1996
7.5-minute, 24000
Aerial Photo Revised 1993

Hayward
1996
7.5-minute, 24000
Aerial Photo Revised 1993

1980 Source Sheets

Hayward
1980
7.5-minute, 24000
Aerial Photo Revised 1979

San Leandro
1980
7.5-minute, 24000
Aerial Photo Revised 1979

1973 Source Sheets

San Leandro
1973
7.5-minute, 24000
Aerial Photo Revised 1973

Hayward
1973
7.5-minute, 24000
Aerial Photo Revised 1973

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1968 Source Sheets

San Leandro
1968
7.5-minute, 24000
Aerial Photo Revised 1968

Hayward
1968
7.5-minute, 24000
Aerial Photo Revised 1968

1959 Source Sheets

Hayward
1959
7.5-minute, 24000
Aerial Photo Revised 1958

San Leandro
1959
7.5-minute, 24000
Aerial Photo Revised 1958

1948, 1950 Source Sheets

San Leandro
1948
7.5-minute, 24000

Hayward
1950
7.5-minute, 24000
Aerial Photo Revised 1946

1947 Source Sheets

San Leandro
1947
7.5-minute, 24000

Hayward
1947
7.5-minute, 24000
Aerial Photo Revised 1946

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1915 Source Sheets

Haywards
1915
15-minute, 62500

Hayward
1915
15-minute, 62500

1899 Source Sheets

Haywards
1899
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

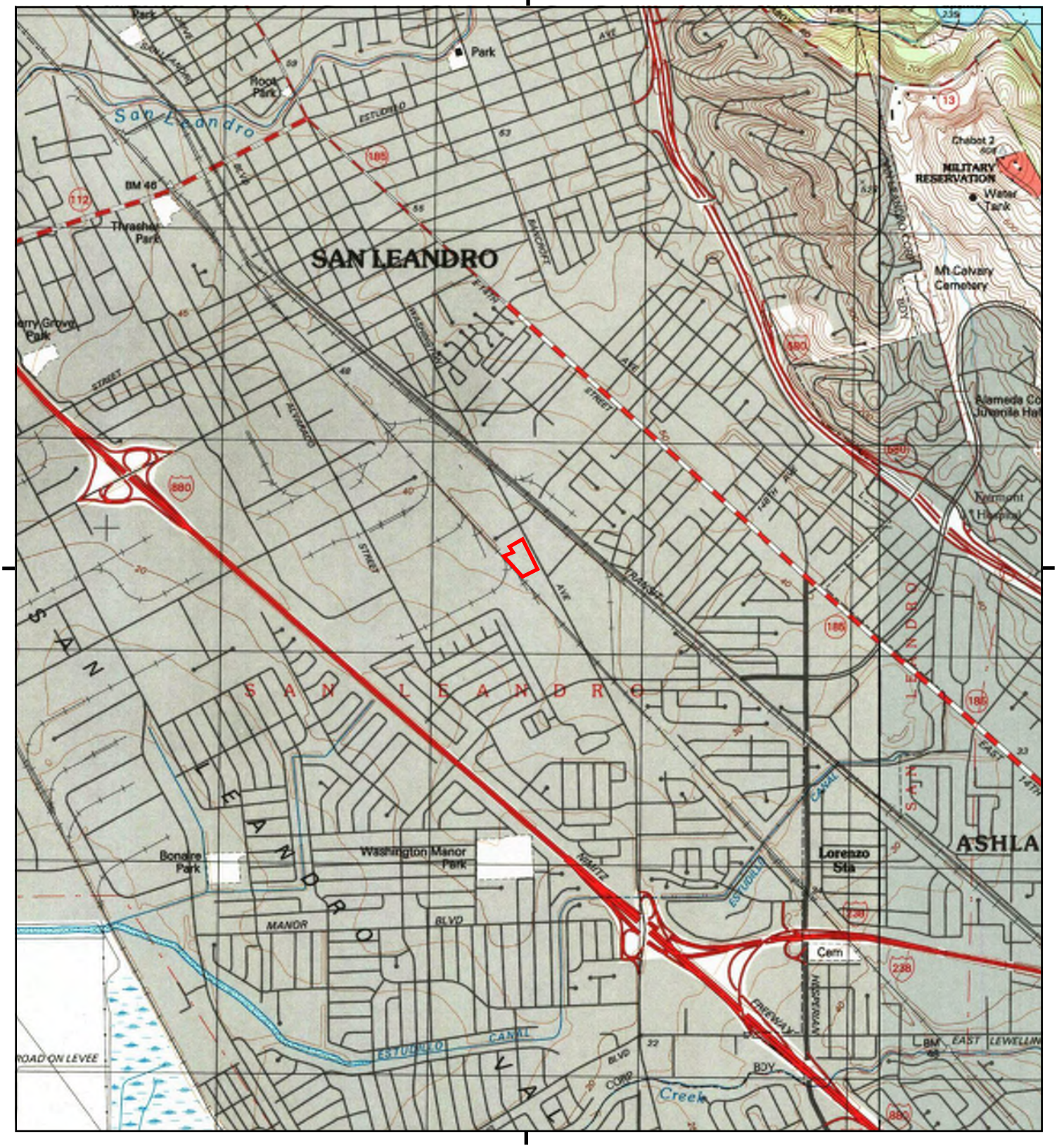
TP, San Leandro, 2012, 7.5-minute
E, Hayward, 2012, 7.5-minute

SITE NAME: Washington Ave. San Leandro
ADDRESS: 14143-14273 Washington Ave
San Leandro, CA 94578
CLIENT: Roux Associates

N

Historical Topo Map

1996



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

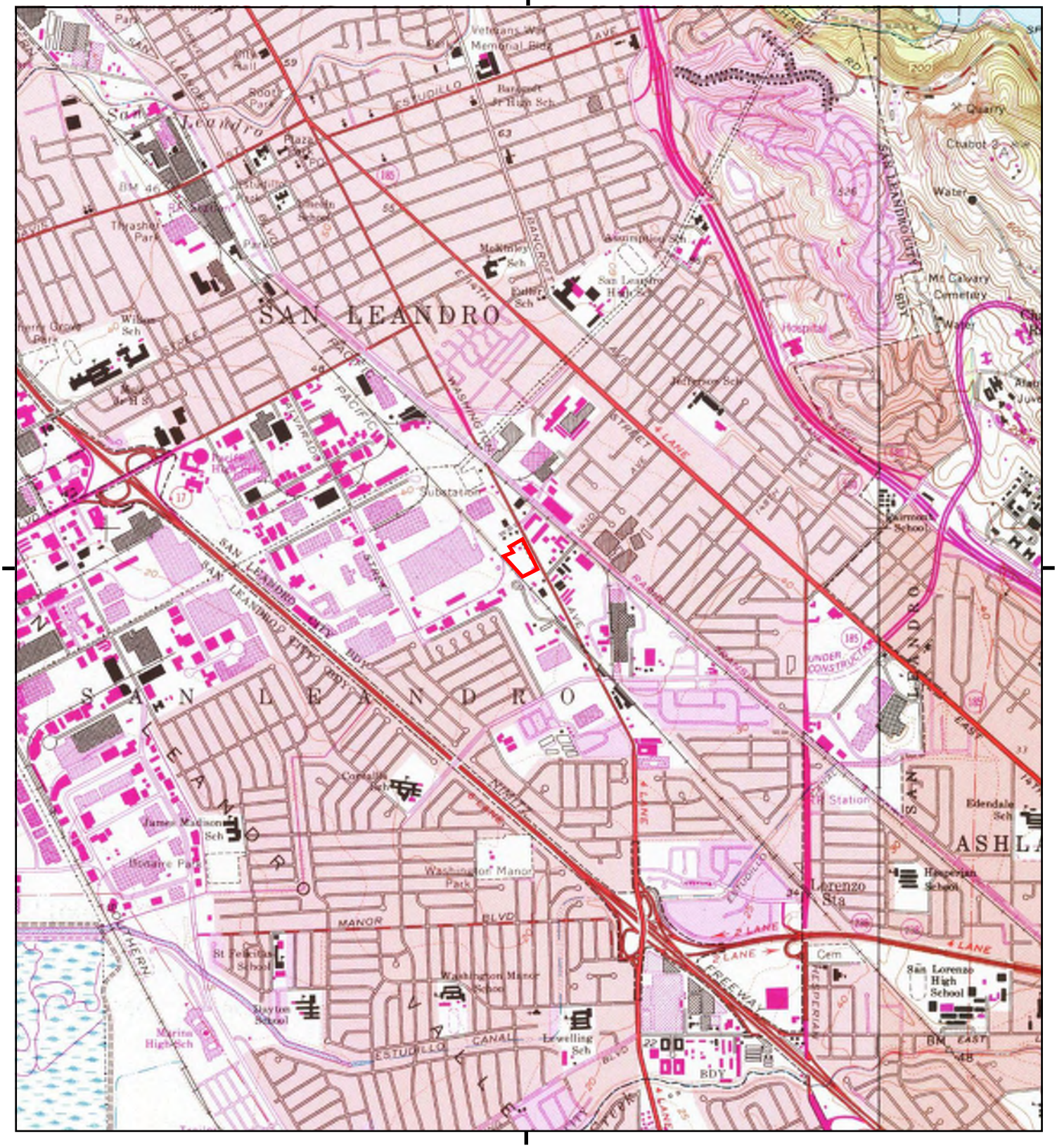
TP, San Leandro, 1996, 7.5-minute
E, Hayward, 1996, 7.5-minute

SITE NAME: Washington Ave. San Leandro
ADDRESS: 14143-14273 Washington Ave
San Leandro, CA 94578
CLIENT: Roux Associates

N

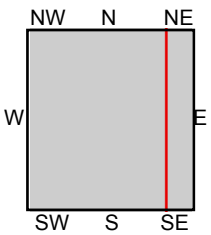
Historical Topo Map

1980



This report includes information from the following map sheet(s).

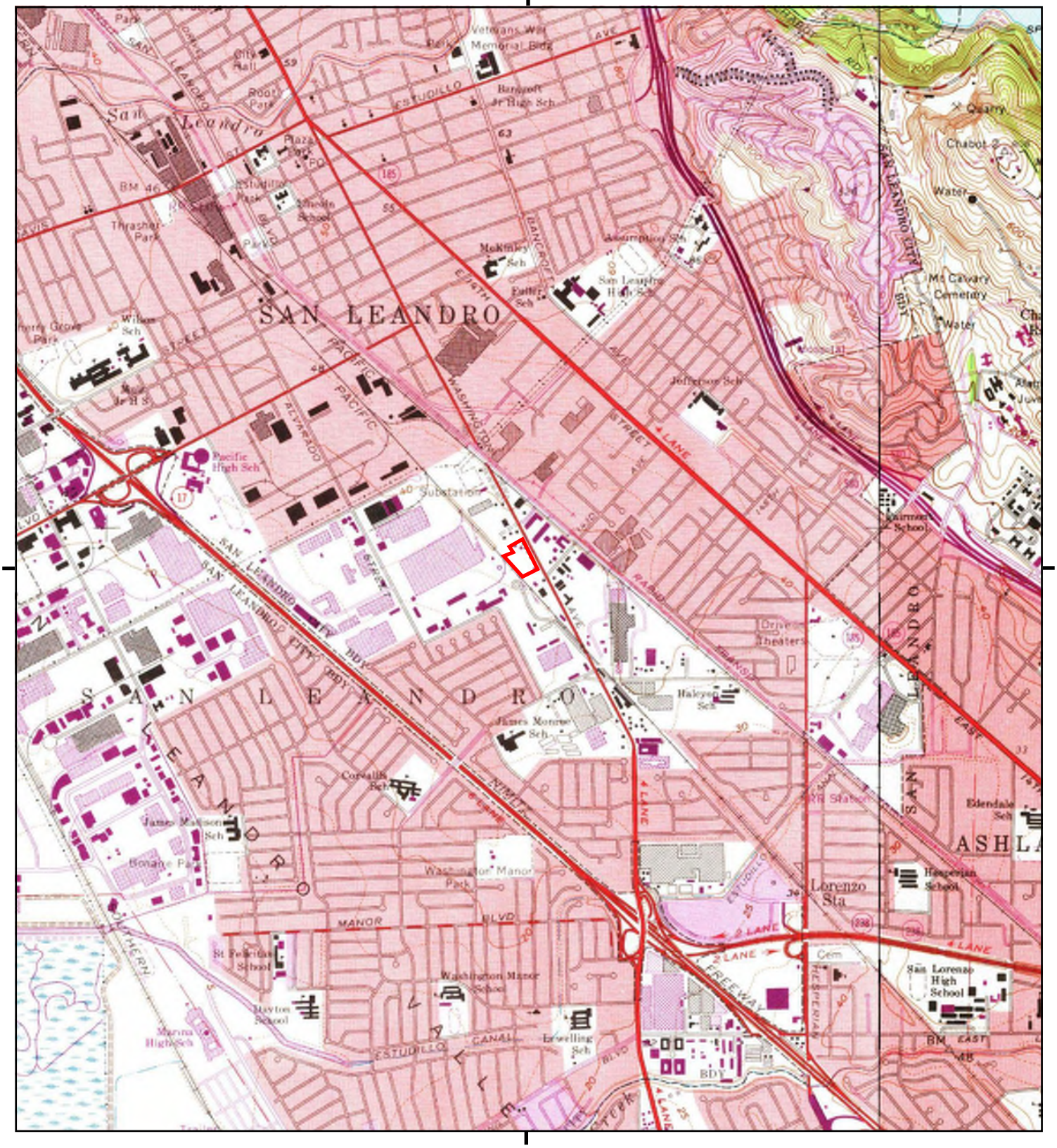
0 Miles 0.25 0.5 1 1.5



TP, San Leandro, 1980, 7.5-minute
E, Hayward, 1980, 7.5-minute

SITE NAME: Washington Ave. San Leandro
ADDRESS: 14143-14273 Washington Ave
San Leandro, CA 94578
CLIENT: Roux Associates

N



This report includes information from the following map sheet(s).

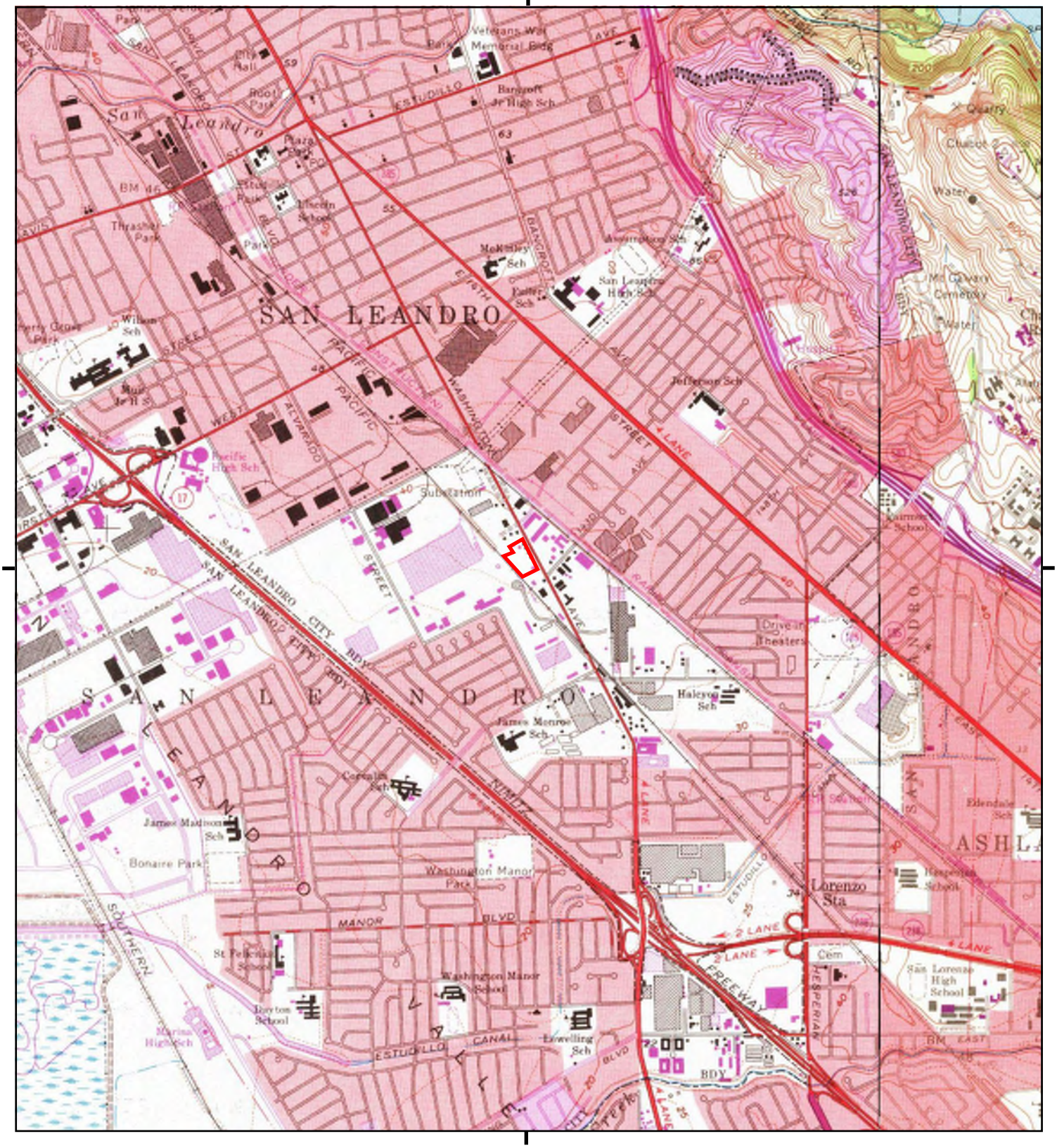
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, San Leandro, 1973, 7.5-minute
E, Hayward, 1973, 7.5-minute

SITE NAME: Washington Ave. San Leandro
ADDRESS: 14143-14273 Washington Ave
San Leandro, CA 94578
CLIENT: Roux Associates

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

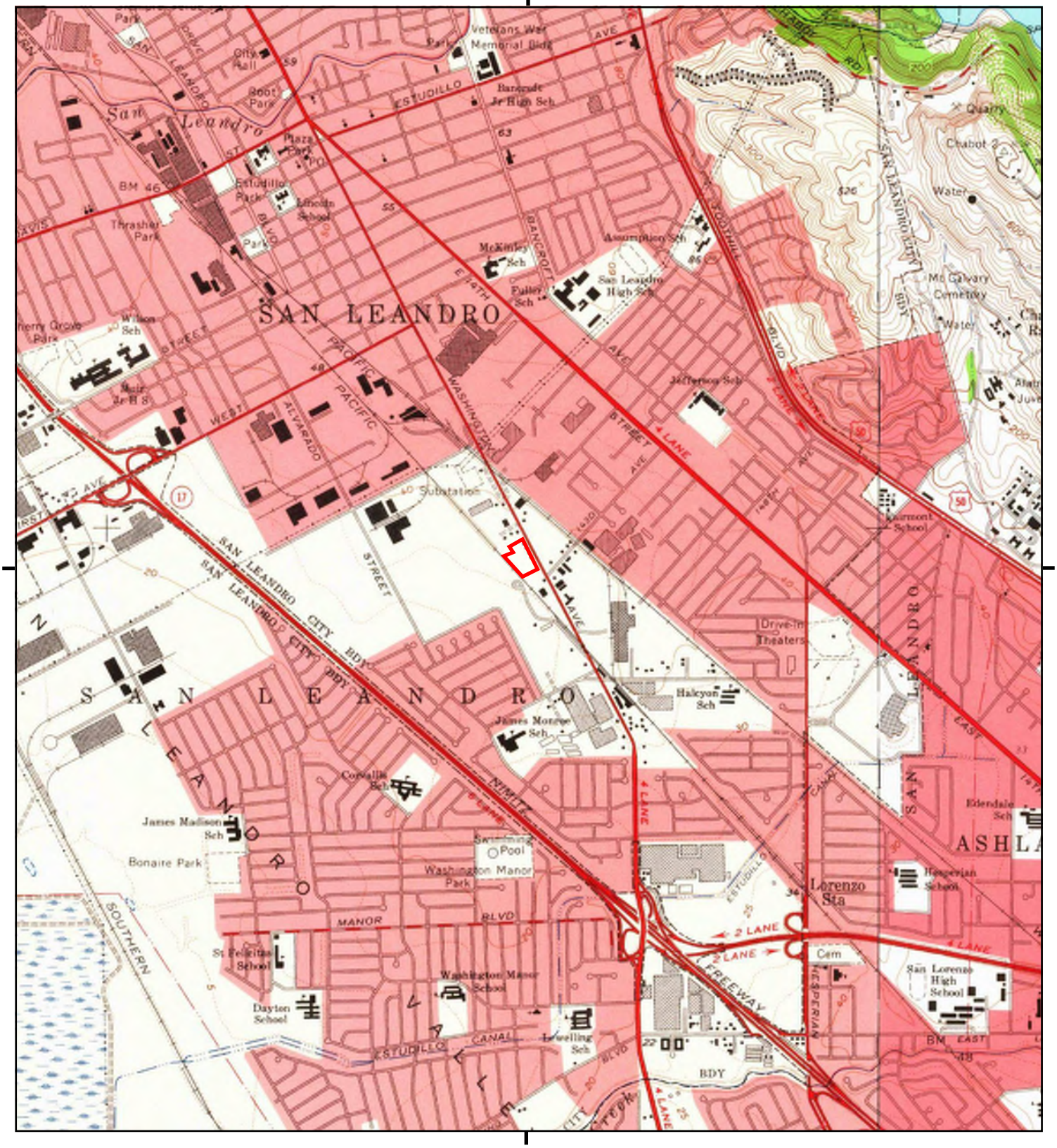
TP, San Leandro, 1968, 7.5-minute
E, Hayward, 1968, 7.5-minute

SITE NAME: Washington Ave. San Leandro
ADDRESS: 14143-14273 Washington Ave
San Leandro, CA 94578
CLIENT: Roux Associates

N

Historical Topo Map

1959



This report includes information from the following map sheet(s).

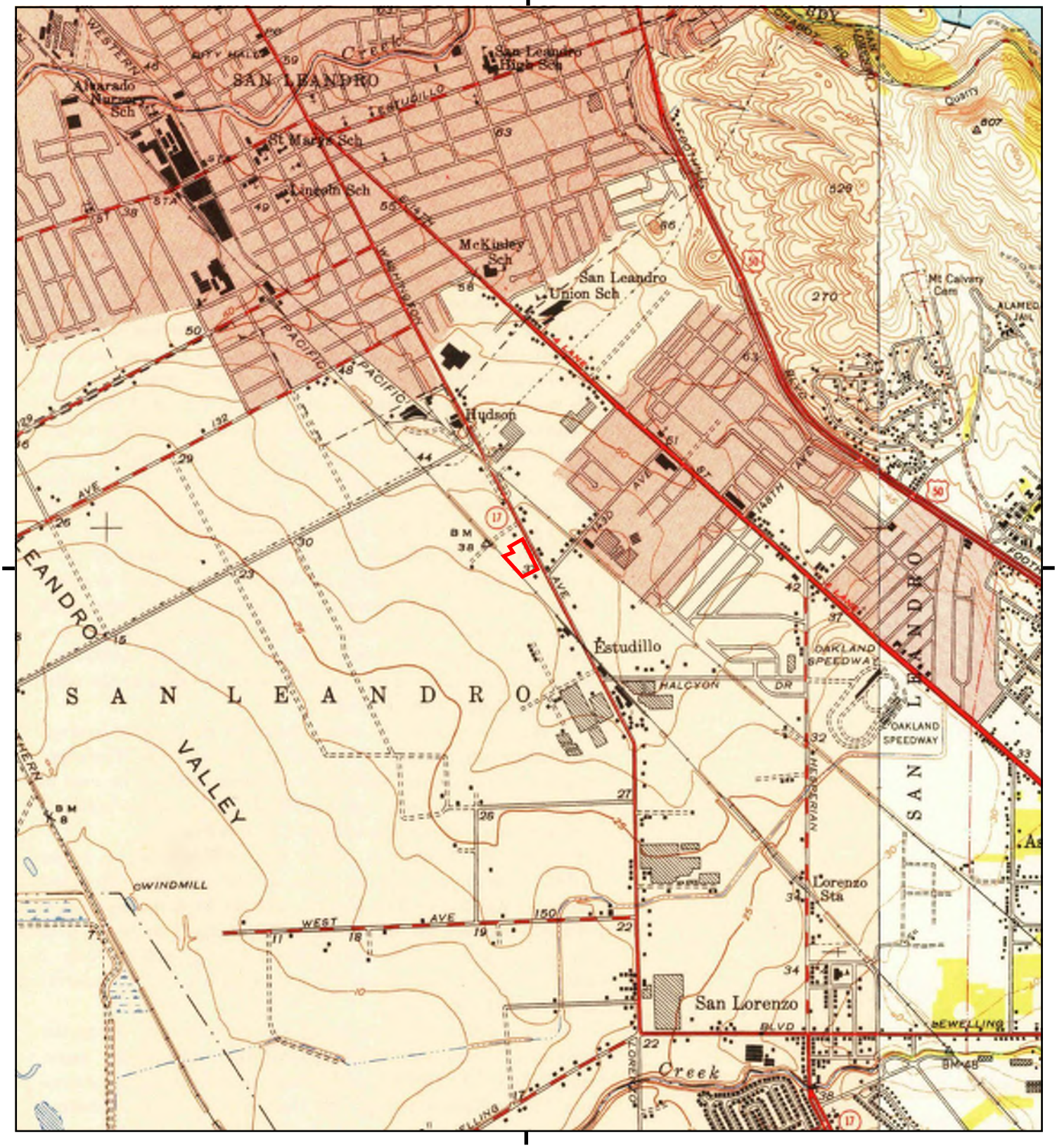
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, San Leandro, 1959, 7.5-minute
E, Hayward, 1959, 7.5-minute

SITE NAME: Washington Ave. San Leandro
ADDRESS: 14143-14273 Washington Ave
San Leandro, CA 94578
CLIENT: Roux Associates

N



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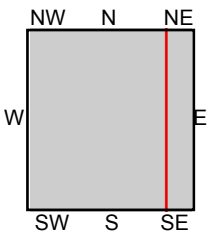
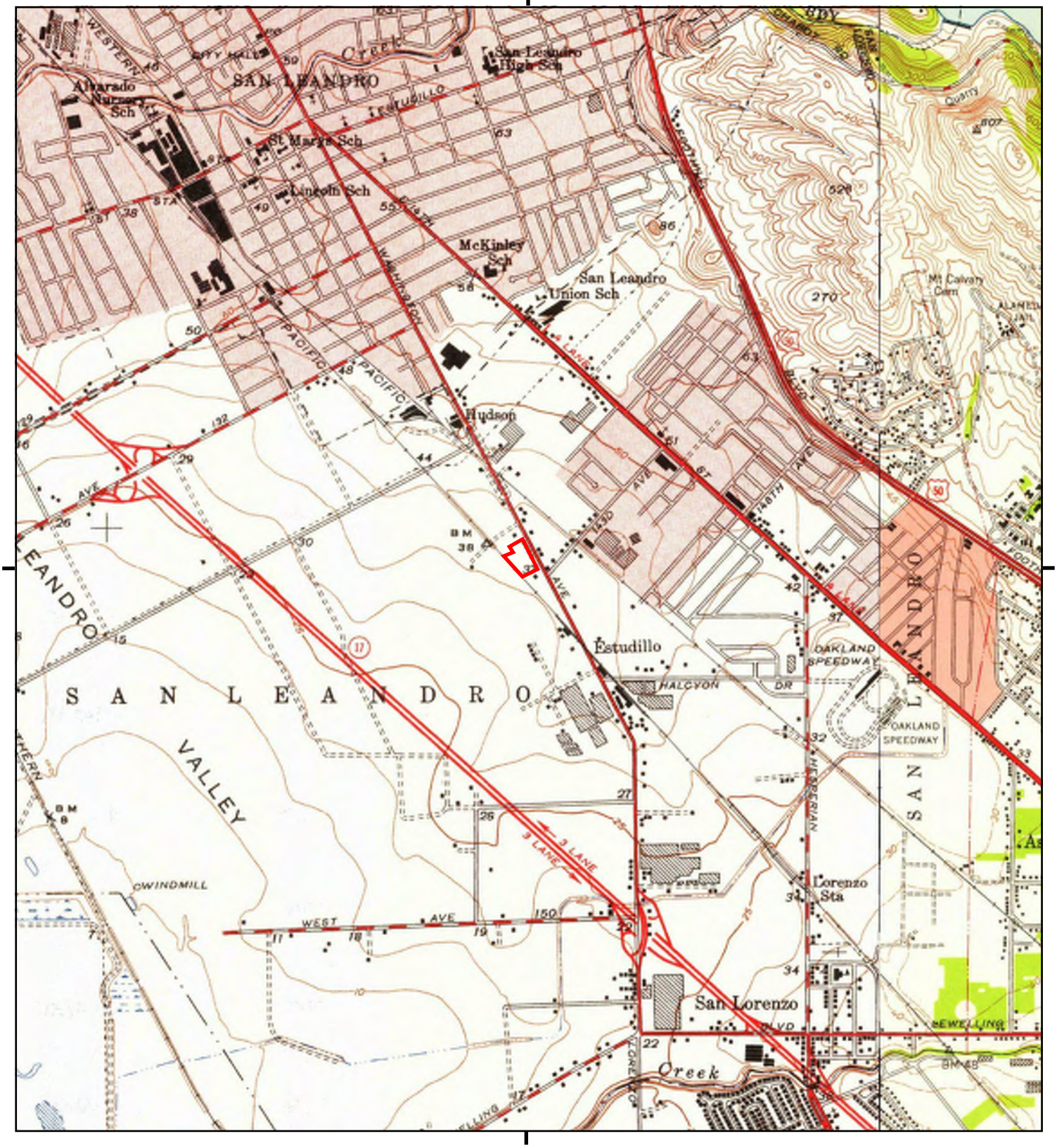
0 Miles 0.25 0.5 1 1.5



TP, San Leandro, 1948, 7.5-minute
E, Hayward, 1950, 7.5-minute

SITE NAME: Washington Ave. San Leandro
ADDRESS: 14143-14273 Washington Ave
San Leandro, CA 94578
CLIENT: Roux Associates

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, San Leandro, 1947, 7.5-minute
E, Hayward, 1947, 7.5-minute

SITE NAME: Washington Ave. San Leandro
ADDRESS: 14143-14273 Washington Ave
San Leandro, CA 94578
CLIENT: Roux Associates

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, Haywards, 1915, 15-minute
TP, Hayward, 1915, 15-minute

SITE NAME: Washington Ave. San Leandro
ADDRESS: 14143-14273 Washington Ave
San Leandro, CA 94578
CLIENT: Roux Associates

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, Haywards, 1899, 15-minute

SITE NAME: Washington Ave. San Leandro
ADDRESS: 14143-14273 Washington Ave
San Leandro, CA 94578
CLIENT: Roux Associates

N

APPENDIX C

EDR Historical Aerial Photographs

Washington Ave. San Leandro

14143-14273 Washington Ave

San Leandro, CA 94578

Inquiry Number: 6617648.4

August 12, 2021

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

08/12/21

Site Name:

Washington Ave. San Leandro
14143-14273 Washington Ave
San Leandro, CA 94578
EDR Inquiry # 6617648.4

Client Name:

Roux Associates
5150 E Pacific Coast Highway
Long Beach, CA 90804
Contact: Caelan Murphy

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1998	1"=500'	Flight Date: August 27, 1998	USDA
1993	1"=500'	Acquisition Date: July 10, 1993	USGS/DOQQ
1982	1"=500'	Flight Date: July 05, 1982	USDA
1974	1"=500'	Flight Date: October 14, 1974	USGS
1968	1"=500'	Flight Date: April 22, 1968	USGS
1963	1"=500'	Flight Date: July 08, 1963	EDR Proprietary Aerial Viewpoint
1958	1"=500'	Flight Date: July 21, 1958	USGS
1946	1"=500'	Flight Date: July 29, 1946	USGS
1939	1"=500'	Flight Date: July 26, 1939	USDA

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INQUIRY #: 6617648.4
YEAR: 2016
= 500'
N
EDR

INQUIRY #: 6617648.4
YEAR: 2012
= 500'
N
EDR

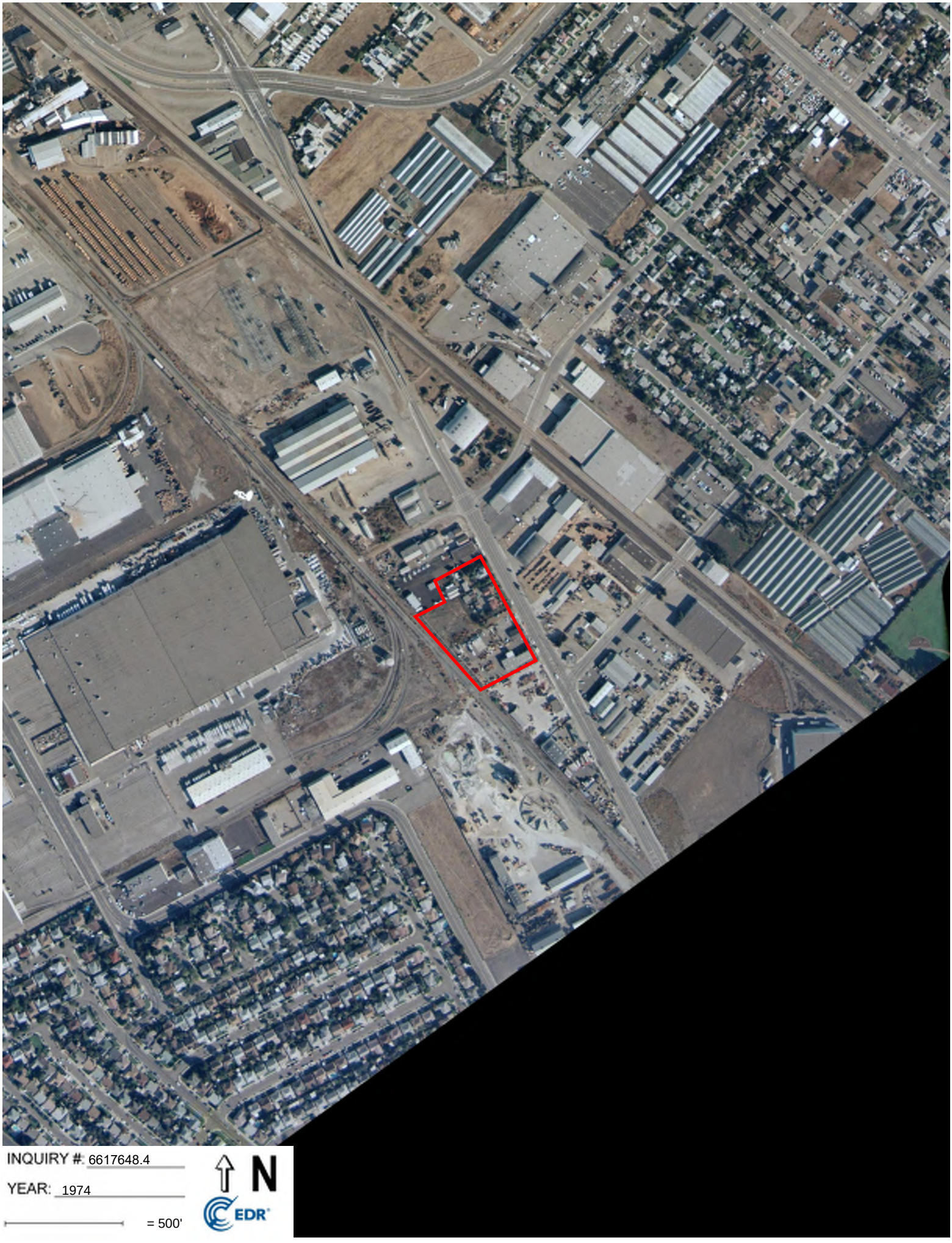
INQUIRY #: 6617648.4
YEAR: 2009
= 500'
N
EDR

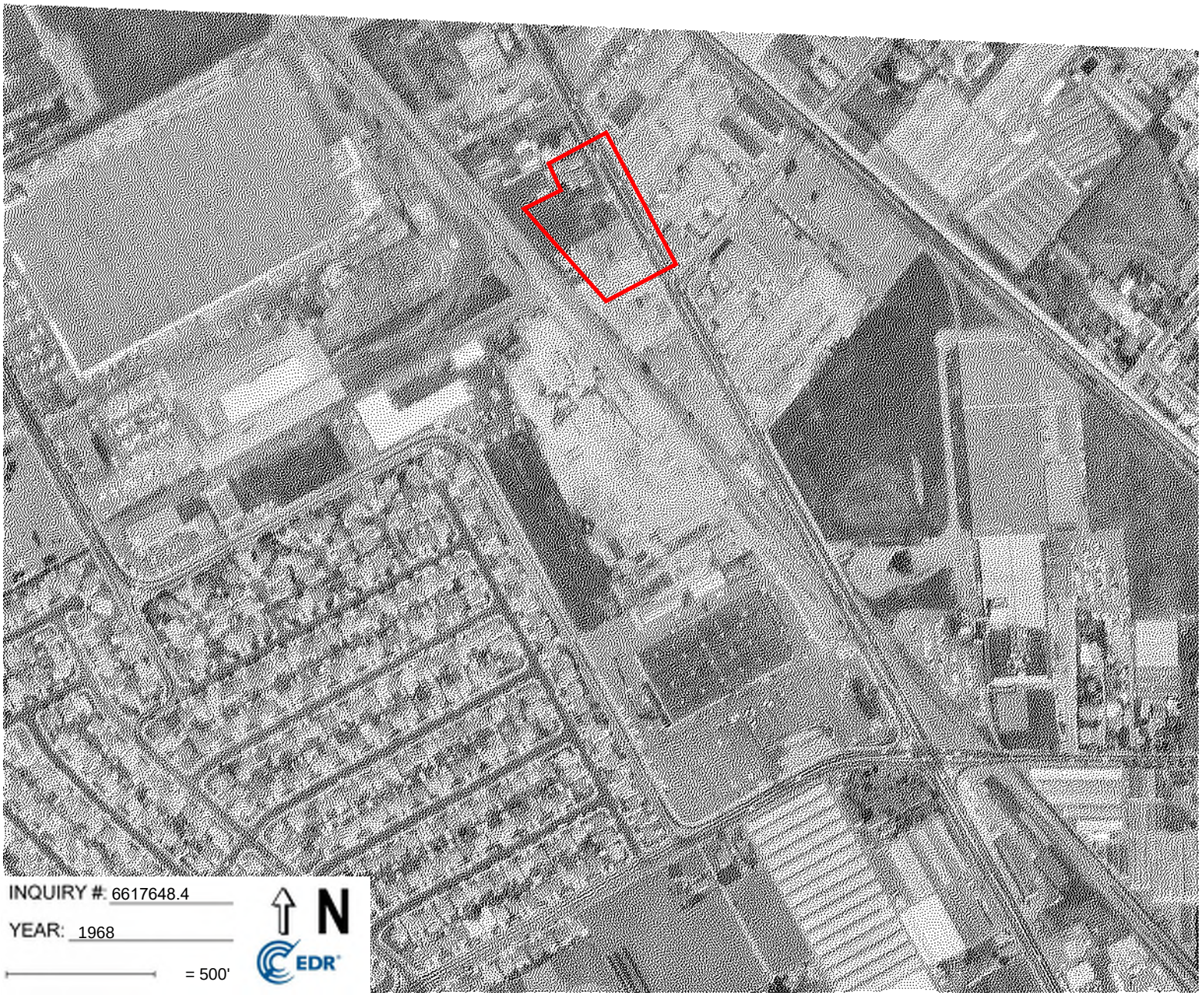
INQUIRY #: 6617648.4
YEAR: 2005
= 500'
N
EDR

INQUIRY #: 6617648.4
YEAR: 1998
= 500'
N
EDR

INQUIRY #: 6617648.4
YEAR: 1993
= 500'
N
EDR

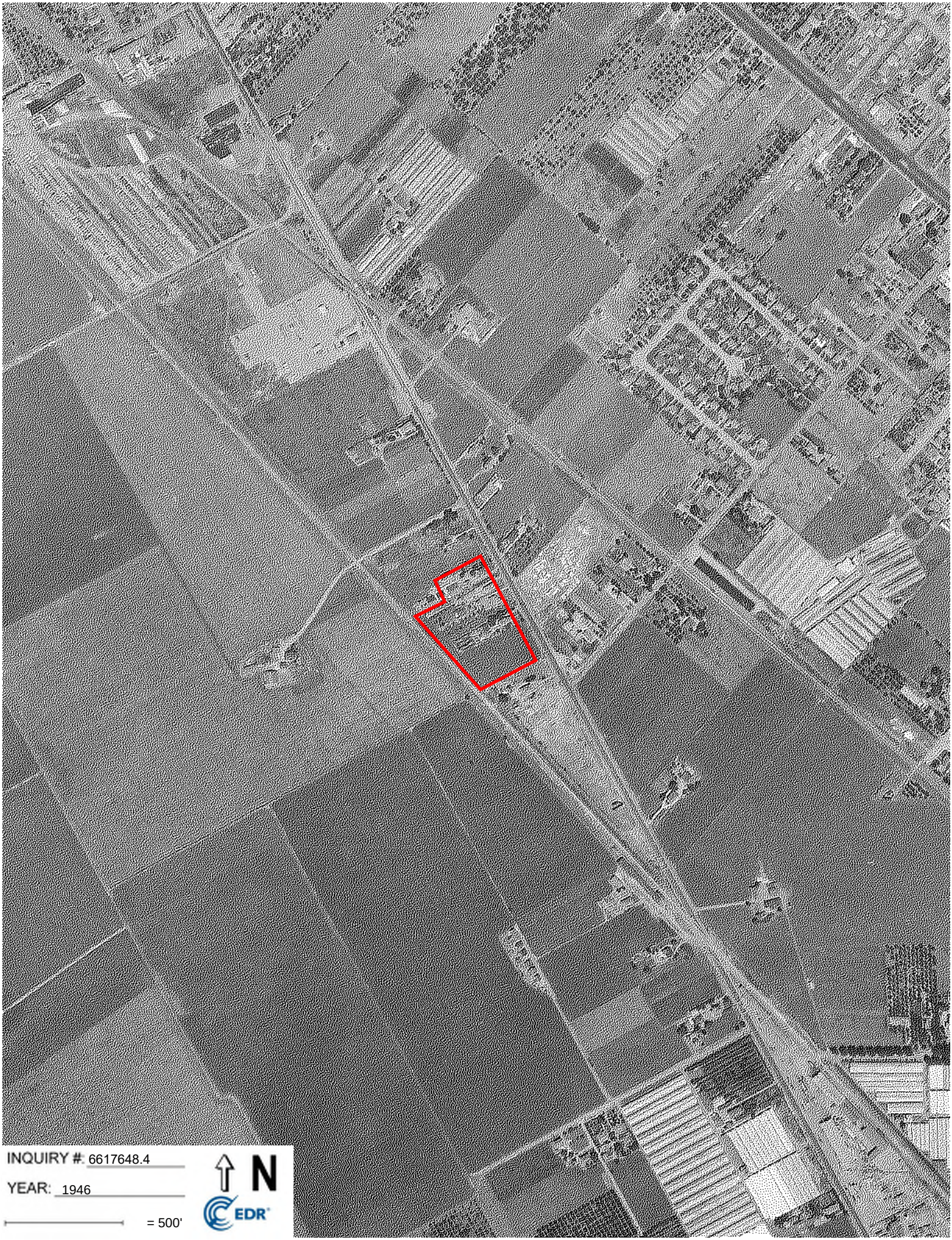
INQUIRY #: 6617648.4
YEAR: 1982
= 500'
N
EDR

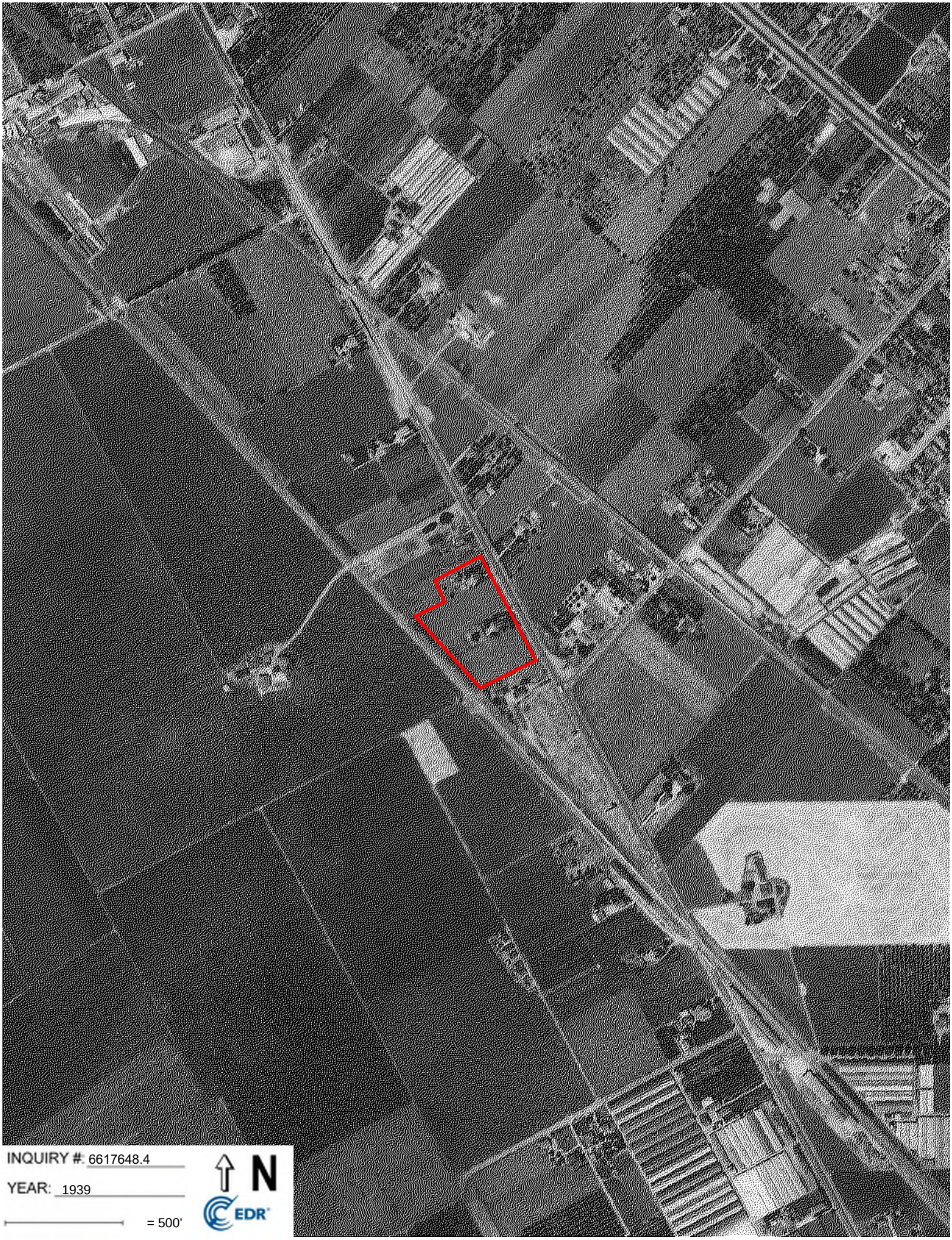

INQUIRY #: 6617648.4
YEAR: 1974
= 500'
N
EDR


INQUIRY #: 6617648.4
YEAR: 1968
= 500'
N
EDR

INQUIRY #: 6617648.4
YEAR: 1963
= 500'
N
EDR

INQUIRY #: 6617648.4
YEAR: 1958
= 500'
N
EDR


INQUIRY #: 6617648.4
YEAR: 1946
= 500'
N
EDR


INQUIRY #: 6617648.4
YEAR: 1939
= 500'
N
EDR

APPENDIX D

EDR Certified Sanborn Report

Washington Ave. San Leandro

14143-14273 Washington Ave

San Leandro, CA 94578

Inquiry Number: 6617648.2

August 12, 2021

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

08/12/21

Site Name:	Client Name:
Washington Ave. San Leandro	Roux Associates
14143-14273 Washington Ave	5150 E Pacific Coast Highway
San Leandro, CA 94578	Long Beach, CA 90804
EDR Inquiry # 6617648.2	Contact: Caelan Murphy

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Roux Associates 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 # 85EE-46A3-9B31

PO # NA

Project Washington Ave - San Leandro

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 #: 85EE-46A3-9B31

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

The Sanborn Library LLC Since 1866™

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APPENDIX E

EDR City Directory Image Report

Washington Ave. San Leandro
14143-14273 Washington Ave
San Leandro, CA 94578

Inquiry Number: 6617648.6
August 12, 2021

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.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2017. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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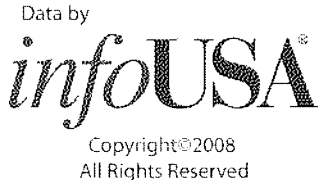

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2017	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2014	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2009	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2006	Haines Company, Inc.	-	-	-	-
2004	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2002	Haines & Company	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
2002	Haines & Company	X	X	X	-
	R. L. Polk & Co.	-	X	X	-
	R. L. Polk & Co.	X	X	X	-
2000	Pacific Bell	-	X	X	-
	Pacific Bell	X	X	X	-
1999	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
1996	PACIFIC BELL DIRECTORY	-	X	X	-
	PACIFIC BELL DIRECTORY	X	X	X	-
1994	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
1993	Pacific Bell	-	-	-	-
1992	PACIFIC BELL DIRECTORY	-	X	X	-
	PACIFIC BELL DIRECTORY	X	X	X	-
1991	PACIFIC BELL WHITE PAGES	-	X	X	-
	PACIFIC BELL WHITE PAGES	X	X	X	-
1986	PACIFIC BELL WHITE PAGES	-	X	X	-
	PACIFIC BELL WHITE PAGES	X	X	X	-
1984	Pacific Bell	-	-	-	-
1982	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1980	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1979	Pacific Telephone	-	X	X	-
1976	R. L. Polk & Co.	-	X	X	-
1975	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1973	Pacific Telephone	-	X	X	-
1970	Pacific Telephone Directory	-	X	X	-
	Pacific Telephone Directory	X	X	X	-
1967	R. L. Polk Co.	-	-	-	-
1965	R. L. Polk & Co.	-	X	X	-
	R. L. Polk & Co.	X	X	X	-
1962	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1960	Pacific Telephone	-	X	X	-
1959	R. L. Polk & Co.	-	X	X	-
	R. L. Polk & Co.	X	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1956	Pacific Telephone	-	-	-	-
1955	The Pacific Telephone & Telegraph Co.	-	X	X	-
	The Pacific Telephone & Telegraph Co.	X	X	X	-
1954	R. L. Polk & Co. of California	-	-	-	-
1951	R. L. Polk & Co.	-	-	-	-
1950	The Pacific Telephone & Telegraph Co.	-	X	X	-
	The Pacific Telephone & Telegraph Co.	X	X	X	-
1946	R. L. Polk & Co.	-	-	-	-
1945	The Pacific Telephone & Telegraph Co.	-	X	X	-
1943	R. L. Polk & Co.	-	-	-	-
1940	R. L. Polk & Co.	-	-	-	-
1938	Pacific Telephone	-	X	X	-
1933	R. L. Polk & Co.	-	X	X	-
1932	R. L. Polk & Co. of California	-	-	-	-
1928	R.L. Polk and Co of California	-	X	X	-
1926	R. L. Polk & Co.	-	-	-	-
1925	R. L. Polk & Co. of California	-	X	X	-
1920	R. L. Polk & Co. of California	-	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
14143 Washington Ave	Client Entered	X
14173 Washington Ave	Client Entered	X
14193 Washington Ave	Client Entered	X
14205 Washington Ave	Client Entered	X
14231 Washington Ave	Client Entered	
14251 Washington Ave	Client Entered	X
14273 Washington Ave	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

14143-14273 Washington Ave
San Leandro, CA 94578

FINDINGS DETAIL

Target Property research detail.

WASHINGTON AVE

14143 WASHINGTON AVE

Year	*Uses*	*Source*
2017	ALVARO ZEMANO	Cole Information Services
	ZERMINO IRON WORKS	Cole Information Services
2014	ALVARO ZEMANO	Cole Information Services
	ZERMINO IRON WORKS	Cole Information Services
2009	PETER FORD	Cole Information Services
	ZERMENOS CUSTOM IRON WORKS	Cole Information Services
2004	ABID ALI	Cole Information Services
	ALL SEASONS JANITORIAL SRVC	Cole Information Services

Washington Ave

14143 Washington Ave

Year	*Uses*	*Source*
2002	BALDIVIC	Haines & Company
	OBALDIVic	R. L. Polk & Co.

WASHINGTON AVE

14143 WASHINGTON AVE

Year	*Uses*	*Source*
1999	PETER FORD	Cole Information Services

FINDINGS

Washington Ave

14143 Washington Ave

Year	Uses	Source
1975	BOLTON E	Pacific Telephone
1970	BOLTON E SAN LEANDRO	Pacific Telephone Directory
1965	BOLTON F EARL	R. L. Polk & Co.
1962	Bolton E	Pacific Telephone
1959	Bolton F Earl poultry dir e	R. L. Polk & Co.
1955	BOLTON F SAN LEANDRO	The Pacific Telephone & Telegraph Co.

WASHINGTON AVE

14173 WASHINGTON AVE

Year	Uses	Source
2017	ALEJANDRO RIVAS	Cole Information Services
2014	ALEJANDRO RIVAS	Cole Information Services
2009	ALEJANDRO RIVAS	Cole Information Services
2004	ALEJANDRO REVAS	Cole Information Services

Washington Ave

14173 Washington Ave

Year	Uses	Source
2002	SILVA Thomas	Haines & Company
	SILVA Thomas	R. L. Polk & Co.

WASHINGTON AVE

14173 WASHINGTON AVE

Year	Uses	Source
1999	ALEJANDRO RIVAS	Cole Information Services

Washington Ave

14173 Washington Ave

Year	Uses	Source
1965	CUNNINGHAM JAMES R	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1962	Hanson Roy B	Pacific Telephone
1959	Hanson Roy B e	R. L. Polk & Co.
1955	SHARPE GEO G SAN LEANDRO	The Pacific Telephone & Telegraph Co.

WASHINGTON AVE

14193 WASHINGTON AVE

Year	Uses	Source
1999	OCCUPANT UNKNOWN	Cole Information Services

Washington Ave

14193 Washington Ave

Year	Uses	Source
1992	FALCON LUMBER & WHOLESALE INC	PACIFIC BELL DIRECTORY
1965	SILVA WM J	R. L. Polk & Co.
1962	Silva Wm J	Pacific Telephone
1959	Silva Wm J e	R. L. Polk & Co.
1950	SILVA WM J R	The Pacific Telephone & Telegraph Co.

14205 Washington Ave

Year	Uses	Source
2002	OBALDI Victor	Haines & Company
	OBALDIViclor	R. L. Polk & Co.
1962	Paul Brenda Faye	Pacific Telephone
	Stokes Libby C	Pacific Telephone
	Stokes Terry L	Pacific Telephone
1959	Stokes Teriry L e	R. L. Polk & Co.
1955	GARLAND D F SAN LEANDRO	The Pacific Telephone & Telegraph Co.
1950	DE FRAGA H E R	The Pacific Telephone & Telegraph Co.

14231 Washington Ave

Year	Uses	Source

FINDINGS

14251 Washington Ave

Year	Uses	Source
2002	BALDI Victor	Haines & Company
	BALDIViclor	R. L. Polk & Co.

WASHINGTON AVE

14251 WASHINGTON AVE

Year	Uses	Source
1999	OCCUPANT UNKNOWN	Cole Information Services
	PETES BIG C COCKTAIL LOUNGE	Cole Information Services

Washington Ave

14251 Washington Ave

Year	Uses	Source
1996	PETE S BIG C COCKTAIL LOUNGE	PACIFIC BELL DIRECTORY

WASHINGTON AVE

14251 WASHINGTON AVE

Year	Uses	Source
1994	KENNEDY S BIG C	Cole Information Services

Washington Ave

14251 Washington Ave

Year	Uses	Source
1992	KENNEDY S BIG C	PACIFIC BELL DIRECTORY
1991	Big C Cocktails	PACIFIC BELL WHITE PAGES
	Kennedys Big C	PACIFIC BELL WHITE PAGES
1986	Big C Cocktails	PACIFIC BELL WHITE PAGES
	KENNEDY S BIG C	PACIFIC BELL WHITE PAGES
	Kennedys Big C	PACIFIC BELL WHITE PAGES
1980	Big C Cocktails	Pacific Telephone
1975	BIG C COCKTAILS	Pacific Telephone
1970	BIG C COCKTAIL LOUNGE SAN LEANDRO	Pacific Telephone Directory

Year	Uses	Source
1965	BIG C TAVERN	R. L. Polk & Co.

WASHINGTON AVE

14273 WASHINGTON AVE

Year	Uses	Source
2017	APOLLO MOTOR HOME HOLIDAY	Cole Information Services
2014	APOLLO MOTOR HOME HOLIDAY	Cole Information Services
2004	UNITED RENTALS	Cole Information Services

Washington Ave

14273 Washington Ave

Year	Uses	Source
2002	UNITDRENTALS	Haines & Company
	UNITDRENTALS	R. L. Polk & Co.
2000	UNITED RENTALS	Pacific Bell

WASHINGTON AVE

14273 WASHINGTON AVE

Year	Uses	Source
1999	A BETTER PHONE RENTAL	Cole Information Services
	SAN LEANDRO RENTAL SERVICE	Cole Information Services

Washington Ave

14273 Washington Ave

Year	Uses	Source
1996	SAN LEANDRO RENTAL SERVICE	PACIFIC BELL DIRECTORY

WASHINGTON AVE

14273 WASHINGTON AVE

Year	Uses	Source
1994	A BETTER PHONE RENTAL	Cole Information Services
	SAN LEANDRO RENTAL SVC	Cole Information Services
	SANLDRO RENTAL	Cole Information Services

FINDINGS

Washington Ave

14273 Washington Ave

Year	*Uses*	*Source*
1992	SAN LEANDRO RENTAL SERVICE	PACIFIC BELL DIRECTORY
1991	S AN LE AN DRO RE N TAL S E RVICE	PACIFIC BELL WHITE PAGES
1986	S AN LE AN DRO RE N TAL S E RVICE	PACIFIC BELL WHITE PAGES
	SAN LEANDRO RENTAL	PACIFIC BELL WHITE PAGES
	SERVICE	PACIFIC BELL WHITE PAGES
1982	SAN LEANDRO RENTAL SERVICE SAN LEANDRO	Pacific Telephone
1980	SAN LEANDRO RENTAL SERVICE	Pacific Telephone
1970	SAN LEANDRO RENTAL SERVICE SAN LEANDRO	Pacific Telephone Directory
1965	SAN LEANDRO RENTAL SERV CONTRS SUPS	R. L. Polk & Co.
	SAN LEANDRO RENTAL SERVICE	R. L. Polk & Co.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

139TH AVE

235 139TH AVE

Year	Uses	Source
2002	XXXX	Haines & Company

295 139TH AVE

Year	Uses	Source
2017	A & C AUTO BODY & FRAME	Cole Information Services
2014	STREET SHADES	Cole Information Services
	A & C AUTO BODY & FRAME	Cole Information Services
2009	A & C AUTOBODY & FRAME	Cole Information Services
	C & S	Cole Information Services
2004	QUALITY AUTO PNTG & BDY REPR A	Cole Information Services
	TROPICAL PARADISE	Cole Information Services
	ACE COLLISION REPAIR	Cole Information Services
2002	TROPICALPAR	Haines & Company
	PAINTING&ATO BODY Bt LLSTOWING	Haines & Company
	AOLTYATO	Haines & Company
2000	C A QUALITY AUTO PAINTING & AUTO BODY	Pacific Bell
	B TROPICAL PARADISE	Pacific Bell
	BILL S TOWING	Pacific Bell
1999	A QUALITY AUTO PAINTING & AUTO BODY	Cole Information Services
	TROPICAL PARADISE	Cole Information Services
1996	C A QUALITY AUTO PAINTING & AUTO BODY	PACIFIC BELL DIRECTORY
	VCI	PACIFIC BELL DIRECTORY
	U-HAUL CO	PACIFIC BELL DIRECTORY
	BAY CITY RENTAL	PACIFIC BELL DIRECTORY
	THRIFTY CAR RENTAL	PACIFIC BELL DIRECTORY

FINDINGS

Year	Uses	Source
1994	U HAUL CO	Cole Information Services
	ALEXS EXCLUSIVE AUTO CRAFT	Cole Information Services
	MENDIETA, ALEX	Cole Information Services
	BAY CITY RENTAL	Cole Information Services
1992	U-HAUL CO	PACIFIC BELL DIRECTORY
	BAY CITY RENTAL	PACIFIC BELL DIRECTORY
	4 EXCLUSIVE AUTOCRAFT TECH & CO	PACIFIC BELL DIRECTORY
1991	Bay City Rental	PACIFIC BELL WHITE PAGES
1986	G Q Security Parachute Inc	PACIFIC BELL WHITE PAGES
	Security Parachute Co	PACIFIC BELL WHITE PAGES
	Security Products Co	PACIFIC BELL WHITE PAGES
	Security Six Training Institute	PACIFIC BELL WHITE PAGES
1980	G Q Security Parachute Inc	Pacific Telephone
	Security Parachute Co	Pacific Telephone
1970	SECURITY PARACHUTE COMPANY SAN LEANDRO	Pacific Telephone Directory

296 139TH AVE

Year	Uses	Source
2014	EDWARDS WELDING	Cole Information Services
2009	EDWARDS WELDING	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
2002	XXXX	Haines & Company
2000	EDWARDS WELDING	Pacific Bell
1996	EDWARDS WELDING INC	PACIFIC BELL DIRECTORY
1992	EDWARDS WELDING INC	PACIFIC BELL DIRECTORY
1991	R & R Satellite Antenna Sales	PACIFIC BELL WHITE PAGES
1986	HIALBACH HENRY	PACIFIC BELL WHITE PAGES
	Halbach Henry	PACIFIC BELL WHITE PAGES

298 139TH AVE

Year	Uses	Source
2004	OCCUPANT UNKNOWN	Cole Information Services
2002	XXXX	Haines & Company

FINDINGS

Year	Uses	Source
1986	Sutherland & Sutherland Mufflers	PACIFIC BELL WHITE PAGES
1980	Sutherlands	Pacific Telephone

344 139TH AVE

Year	Uses	Source
2009	MET LABORATORIES INC	Cole Information Services
2004	MET LABROTARIES INC	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
2002	SCHMIDTDarrell	Haines & Company
	Hi FTRU	Haines & Company
2000	H & F TRUCKING	Pacific Bell
1999	H & F TRUCKING	Cole Information Services
1996	H & F TRUCKING	PACIFIC BELL DIRECTORY
	J & T TRUCKING	PACIFIC BELL DIRECTORY
1994	DEMELLO WAYNE	Cole Information Services
1992	H & F TRUCKING	PACIFIC BELL DIRECTORY
	DE MELLO WAYNE	PACIFIC BELL DIRECTORY
1991	H&FTrucking	PACIFIC BELL WHITE PAGES
1986	GO LIGHTLY	PACIFIC BELL WHITE PAGES
	Go M P	PACIFIC BELL WHITE PAGES
	New Kid In Town Mfg Co	PACIFIC BELL WHITE PAGES
	Go Lightly sewing mfr	PACIFIC BELL WHITE PAGES
1980	Go Lightly sewing mfr	Pacific Telephone

350 139TH AVE

Year	Uses	Source
2002	XXXX	Haines & Company
1991	Valdez Trucking	PACIFIC BELL WHITE PAGES

750 139TH AVE

Year	Uses	Source
2017	LINCOLN PROPERTY COMPANY	Cole Information Services
	BREWERS SUPPLY GROUP	Cole Information Services
2014	LINCOLN PROPERTY COMPANY	Cole Information Services

FINDINGS

Year	Uses	Source
2014	BREWERS SUPPLY GROUP	Cole Information Services
2009	LINCOLN PROPERTY CO	Cole Information Services
	K P CORP	Cole Information Services
2004	KP CORP	Cole Information Services
2002	HUNTER ADVERTISING	Haines & Company
	MAIL CO KI P CORPORATION	Haines & Company
	MAILCOMM	Haines & Company
2000	MAILCOMM	Pacific Bell
1999	KP CORPORATION	Cole Information Services
	MAILCOMM	Cole Information Services
	HUNTER ADVERTISING MAIL COMPANY	Cole Information Services
1996	MAILCOMM	PACIFIC BELL DIRECTORY
1994	T G B ASSOCIATES	Cole Information Services
1992	TGB ASSOCIATES	PACIFIC BELL DIRECTORY
1991	Black & Egbert Associates	PACIFIC BELL WHITE PAGES

760 139TH AVE

Year	Uses	Source
1970	LINCOLN ELECTRIC CO THE SAN LEANDRO	Pacific Telephone Directory

13TH AVE

530 13TH AVE

Year	Uses	Source
1928	Boronda Jos barber R	R.L. Polk and Co of California

143RD AV SL

555 143RD AV SL

Year	Uses	Source
1973	MOJAVE TRANSPORTATION CO	Pacific Telephone

641 143RD AV SL

Year	Uses	Source
1973	BEST MOVING & STORAGE CO	Pacific Telephone

FINDINGS

143RD AVE

501 143RD AVE

Year	Uses	Source
1965	MELLO HILARIO C	R. L. Polk & Co.
1962	Mello H C	Pacific Telephone
1959	Mello Hilario C	R. L. Polk & Co.
1955	MELLO H C R SAN LEANDRO	The Pacific Telephone & Telegraph Co.
1945	MELLO H C R SAN LEANDRO	The Pacific Telephone & Telegraph Co.

534 143RD AVE

Year	Uses	Source
2017	MUTAZU INC	Cole Information Services
2014	MUTAZU INC	Cole Information Services
2009	D & B MACHINE	Cole Information Services
2004	D & B MACH	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
2002	D 9 B MA	Haines & Company
	HENRY Delbert	R. L. Polk & Co.
	9 B MA	R. L. Polk & Co.
	HENRY Delbert	Haines & Company
2000	D & B MACHINE	Pacific Bell
1999	D & B MACHINE	Cole Information Services
1996	D & B MACHINE	PACIFIC BELL DIRECTORY
1994	WESTERN METAL SASH CO	Cole Information Services
1992	WESTERN METAL SASH CO INC	PACIFIC BELL DIRECTORY
1991	Western Metal Sash Co Inc	PACIFIC BELL WHITE PAGES
1986	Western Metal Sash Co Inc	PACIFIC BELL WHITE PAGES
	WESTERN METAL SASH CO INC	PACIFIC BELL WHITE PAGES
1980	Western Metal Sash Co Inc	Pacific Telephone
1970	WESTERN METAL SASH CO INC SAN LEANDRO	Pacific Telephone Directory
1965	WESTERN METAL SASH CO	R. L. Polk & Co.
1962	Western Metal Sash Co Inc	Pacific Telephone
1959	Western Metal Sash Co Inc e	R. L. Polk & Co.

FINDINGS

555 143RD AVE

Year	Uses	Source
1980	Mammoth Freight Lines Inc	Pacific Telephone
1975	MOJAVE TRANSPORTATION CO	Pacific Telephone
	MAMMOTH FREIGHT LINES INC	Pacific Telephone
1965	CRESCENT TRUCK LINES INC	R. L. Polk & Co.
1962	Crescent Truck Lines	Pacific Telephone
1959	Chevron Truck Lines	R. L. Polk & Co.

564 143RD AVE

Year	Uses	Source
2017	TRENCH PLATE RENTAL CO TPR	Cole Information Services
2014	TRENCH PLATE RENTAL CO	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
2002	DIETERSG	R. L. Polk & Co.
	WASHINGTON Daryl	R. L. Polk & Co.
	WASHINGTON Daryl	Haines & Company
	DIETERSG	Haines & Company
2000	DIETER S GARAGE	Pacific Bell
	ROUNDTREE RICH	Pacific Bell
	SAN MIGUEL JOSEPH	Pacific Bell
	WILLIS JOSEPH	Pacific Bell
	SALMON KELLY	Pacific Bell
1965	PACIFIC TEL & TELEGSHOP	R. L. Polk & Co.

601 143RD AVE

Year	Uses	Source
2017	HALLIE LOVERIDGE	Cole Information Services
2014	HALLIE LOVERIDGE	Cole Information Services
2009	HALLIE LOVERIDGE	Cole Information Services
2004	ELTHON MANFUT	Cole Information Services
2002	MANFUTE	R. L. Polk & Co.
	LARSEN Palncia	R. L. Polk & Co.
	MANFUTE	Haines & Company
	LARSEN Palncia	Haines & Company

FINDINGS

Year	Uses	Source
1999	HALLIE LOVERIDGE	Cole Information Services
1996	BASSETT JOHN O	PACIFIC BELL DIRECTORY
1994	BASSETT, JOHN O	Cole Information Services
1992	BASSETT JOHN O	PACIFIC BELL DIRECTORY
1991	Bassett John W	PACIFIC BELL WHITE PAGES
	Bassett John O	PACIFIC BELL WHITE PAGES
1986	BASSETT JOHN	PACIFIC BELL WHITE PAGES
1980	Bassett John O	Pacific Telephone
1970	BASSETT JOHN O SAN LEANDRO	Pacific Telephone Directory
1965	DUARTE WM R	R. L. Polk & Co.
1962	Duarte Wm R	Pacific Telephone
1959	Duarte Wm R e	R. L. Polk & Co.
1945	ROGERS JOSEPH L R SAN LEANDRO	The Pacific Telephone & Telegraph Co.
1938	ROGERS J L R	Pacific Telephone

635 143RD AVE

Year	Uses	Source
1955	OLACHEA LUIS R SAN LEANDRO	The Pacific Telephone & Telegraph Co.
1938	MATLEAN ALBERT R	Pacific Telephone

640 143RD AVE

Year	Uses	Source
1986	AAHMES TEMPLE MYSTIC SHRINE OFC	PACIFIC BELL WHITE PAGES
1980	Aahmies Shrine Circus	Pacific Telephone
1970	J & J METAL PRODUCTS CO SAN LEANDRO	Pacific Telephone Directory
1955	DUARTE A S SAN LEANDRO	The Pacific Telephone & Telegraph Co.

641 143RD AVE

Year	Uses	Source
1986	Best Moving And Storage Co Inc	PACIFIC BELL WHITE PAGES
1982	BEST MOVING & STORAGE CO INC FREMONT	Pacific Telephone
1979	BEST MOVING & STORAGE CO	Pacific Telephone
	BEST MOVING & STORAGE CO	Pacific Telephone

Year	Uses	Source
1970	BEST MOVING & STORAGE CO SAN LEANDRO	Pacific Telephone Directory

143RD AVS TR INIDAD

635 143RD AVS TR INIDAD

Year	Uses	Source
1950	OLACHEA LUIS R	The Pacific Telephone & Telegraph Co.

143RD AVSO TR INIDAD

601 143RD AVSO TR INIDAD

Year	Uses	Source
1950	ROGERS JOSEPH L R	The Pacific Telephone & Telegraph Co.

19TH AVE

900 19TH AVE

Year	Uses	Source
1962	SON NEL PRODUCTS CO	Pacific Telephone
1955	SON NEL SUPPLY CORP	The Pacific Telephone & Telegraph Co.
	SON NEL PRODUCTS CO	The Pacific Telephone & Telegraph Co.
	SON NEL MFG CO	The Pacific Telephone & Telegraph Co.
	BLUHM CO INC	The Pacific Telephone & Telegraph Co.
1938	UNITED STATES GOVERNMENT	Pacific Telephone
1928	Hook Benton A supt B H Body Co R	R.L. Polk and Co of California
	B H Body Co Inc B H Body pres R BE Cotter v pres V J Barnett seoc troas H B Now land slimgr canners	R.L. Polk and Co of California
1925	LIVINGSTON CANNING CO	R. L. Polk & Co. of California
	THOMAS BODY CO INC	R. L. Polk & Co. of California
1920	THOMAS BODY CO INC	R. L. Polk & Co. of California

950 19TH AVE

Year	Uses	Source
1962	EMPIRE FOUNDRY CO	Pacific Telephone
	CALIF FOUNDRY	Pacific Telephone

Year	Uses	Source
1955	CALIF FOUNDRIES INC	The Pacific Telephone & Telegraph Co.
1950	CALIF FOUNDRIES INC	The Pacific Telephone & Telegraph Co.
1945	CALIF FOUNDRIES INC	The Pacific Telephone & Telegraph Co.
1938	CALIF FOUNDRIES INC	Pacific Telephone
1933	CALIFORNIA FOUNDRIES INC A H SCHIMMELPFENNIG PRES	R. L. Polk & Co.
1928	Foundries Inc A H Schlmmelpfenng pres J F Hamilton v pres W S Lorimer sec treas	R.L. Polk and Co of California

CHAPMAN RD

14200 CHAPMAN RD

Year	Uses	Source
2014	CITY OF SAN LEANDRO	Cole Information Services
2004	SAN LEANDRO PUBLIC WORKS SRVC	Cole Information Services
2002	GENERAL INFO	R. L. Polk & Co.
	SNLDROCTYWRKS	R. L. Polk & Co.
	GENERAL INFO	Haines & Company
	SNLDROCTYWRKS	Haines & Company
1994	SNLDRO CTY WKS GRBG	Cole Information Services
	SAN LEANDRO PUBLIC WORKS SVC	Cole Information Services

WASHINGTON AVE

14000 WASHINGTON AVE

Year	Uses	Source
1970	UNITED STATES GOVERNMENT	Pacific Telephone Directory
1955	BUDGET PACK INC SAN LEANDRO	The Pacific Telephone & Telegraph Co.

14010 WASHINGTON AVE

Year	Uses	Source
2002	KHANNaeem	Haines & Company
	RAINTREE CAR WASH	Haines & Company

14060 WASHINGTON AVE

Year	Uses	Source
1965	BOTTARO G ALF	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1962	Bottaro Alfred	Pacific Telephone
1959	Bottaro G Alt e	R. L. Polk & Co.
1955	BOTTARO ALFRED R SAN LEANDRO	The Pacific Telephone & Telegraph Co.
1950	BOTTARO ALFRED R	The Pacific Telephone & Telegraph Co.
1945	BOTTARO ALFRED R SAN LEANDRO	The Pacific Telephone & Telegraph Co.

14074 WASHINGTON AVE

Year	Uses	Source
2017	IMPORT AUTO CARE	Cole Information Services
2014	IMPORT AUTO CARE	Cole Information Services
2009	IMPORT AUTO CARE	Cole Information Services
2004	PETES ATMTV & TRUCK RPR	Cole Information Services
2000	ALL PRO PETE S AUTOMOTIVE & REPAIR	Pacific Bell
1999	PETES AUTOMOTIVE & TRUCK REPAIR	Cole Information Services
	ALL PRO PETES AUTOMOTIVE & REPAIR	Cole Information Services
1996	LINCOLN PRESS	PACIFIC BELL DIRECTORY
1994	LINCOLN PRESS	Cole Information Services
1992	CANNONBALL 2 PRINTING & GRAPHICS	PACIFIC BELL DIRECTORY
1986	BRANOT PRINTING CORP	PACIFIC BELL WHITE PAGES
	Brandt Printing Corp	PACIFIC BELL WHITE PAGES

14078 WASHINGTON AVE

Year	Uses	Source
2017	UNION AUTO REPAIR	Cole Information Services
2014	UNION AUTO REPAIR	Cole Information Services
2009	UNION AUTO REPAIR	Cole Information Services
2004	UNION AUTO REPAIR	Cole Information Services
	ANDY PHAM	Cole Information Services
2000	UNION AUTO REPAIR	Pacific Bell
1999	UNION AUTO REPAIR	Cole Information Services
1996	UNION AUTO REPAIR	PACIFIC BELL DIRECTORY
1994	UNION AUTO REPAIR	Cole Information Services
1991	A A GLASS	PACIFIC BELL WHITE PAGES
1986	AA GLAS S	PACIFIC BELL WHITE PAGES

FINDINGS

Year	Uses	Source
1986	A A GLASS	PACIFIC BELL WHITE PAGES

14082 WASHINGTON AVE

Year	Uses	Source
2014	SUTHERLAND & SUTHERLAND MUFFLERS	Cole Information Services
2004	SCS ENTERPRISES INC	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
2002	RLAN MUFFLERS	R. L. Polk & Co.
	SUTHERLAND&SUTHE	R. L. Polk & Co.
	RLAN MUFFLERS	Haines & Company
	SUTHERLAND&SUTHE	Haines & Company
2000	SUTHERLAND & SUTHERLAND MUFFLERS	Pacific Bell
1999	SUTHERLAND & SUTHERLAND MUFFLERS	Cole Information Services
1996	SUTHERLAND & SUTHERLAND MUFFLERS	PACIFIC BELL DIRECTORY
1994	SUTHERLAND & SUTHERLAND	Cole Information Services
1992	SUTHERLAND & SUTHERLAND MUFFLERS	PACIFIC BELL DIRECTORY
1991	i Sutherland & Sutherland Mufflers	PACIFIC BELL WHITE PAGES
1986	Sutherland & Sutherland Mufflers	PACIFIC BELL WHITE PAGES
	SUTHERLAND & SUTHERLAND MUFFLERS	PACIFIC BELL WHITE PAGES

14084 WASHINGTON AVE

Year	Uses	Source
2004	DANIELLE DAVIS	Cole Information Services
2002	XXXX	Haines & Company
	XXXX	R. L. Polk & Co.
2000	DEE S AMERICAN V-TWINS	Pacific Bell
1999	DEES AMERICAN V TWINS	Cole Information Services
1994	UNIVRSL DOOR CO	Cole Information Services
	UNIVERSAL DOOR CO	Cole Information Services
1992	KITCHENS & BATHS BY DANIELLE	PACIFIC BELL DIRECTORY
1991	Kitchens OB	PACIFIC BELL WHITE PAGES
	Kitchens & Baths By Danielle	PACIFIC BELL WHITE PAGES
1986	INVESTIGATOR	PACIFIC BELL WHITE PAGES
	WOZNIAK M J FIRE-ARMS	PACIFIC BELL WHITE PAGES

FINDINGS

14086 WASHINGTON AVE

Year	*Uses*	*Source*
2014	CORRAL CONSTRUCTION CO	Cole Information Services
	CORRAL CONSTRUCTION COMPANY	Cole Information Services
2009	FLAMINGOS FLOORING	Cole Information Services
	CORRAL CONSTRUCTION CO	Cole Information Services
2004	CORRAL CONSTRUCTION CO	Cole Information Services
	FLAMINGOS FLOORING	Cole Information Services
2002	FLAMINGOSFLOORING 51 B	Haines & Company
	FLAMINGOSFLOORING	R. L. Polk & Co.

14088 WASHINGTON AVE

Year	*Uses*	*Source*
2004	DANIELLE DESIGNS BY A WOMAN	Cole Information Services
	DEANS GYMNASTICS	Cole Information Services
	GLEN ATWOOD	Cole Information Services
2002	ARNOLDTThomas	R. L. Polk & Co.
	BURKEStephen	R. L. Polk & Co.
	CORNELLMa ll	R. L. Polk & Co.
	DEANS GYMNASTICS	R. L. Polk & Co.
	DEANS GYMNASTICS	Haines & Company
	CORNELLMall	Haines & Company
	BURKEStephen	Haines & Company
	ARNOLDTThomas	Haines & Company
2000	DEANS GYMNASTICS	Pacific Bell
	1 ARNOLD THOMAS	Pacific Bell
	2 CORNELL MATT	Pacific Bell
1996	MARKETING DESIGN GROUP	PACIFIC BELL DIRECTORY
1994	KITCHENS & BATHS BY DANIELLE	Cole Information Services
1991	MATTUCCI& W ARN E R THE PHOTOGRAPHE RS	PACIFIC BELL WHITE PAGES
	Matucha D C	PACIFIC BELL WHITE PAGES
1986	Spa Products	PACIFIC BELL WHITE PAGES
	MATTUCCI & W ARN E R THE PHOTOGRAPHE RS	PACIFIC BELL WHITE PAGES

FINDINGS

Year	Uses	Source
1986	ABC MOTORS	PACIFIC BELL WHITE PAGES
	SPA PRODUCTS	PACIFIC BELL WHITE PAGES
	MATTUCCI & WARNER	PACIFIC BELL WHITE PAGES
	THE PHOTOGRAPHERS	PACIFIC BELL WHITE PAGES
1965	VACANT	R. L. Polk & Co.
1962	Rogers Frank S	Pacific Telephone
1959	Rogers Frank 4 EL	R. L. Polk & Co.
1955	CABECELRAS JOAQUIN SAN LEANDRO	The Pacific Telephone & Telegraph Co.

14100 WASHINGTON AVE

Year	Uses	Source
1962	Randles R M Rev	Pacific Telephone
	Pentecostal Evangelistic Tabernacle	Pacific Telephone
	A B C Cabinet Builders	Pacific Telephone
1959	Full Gospel Ch	R. L. Polk & Co.
1950	HANSON H C R	The Pacific Telephone & Telegraph Co.
1945	HANSON H C R SAN LEANDRO	The Pacific Telephone & Telegraph Co.
1938	HANSON H C R	Pacific Telephone

14105 WASHINGTON AVE

Year	Uses	Source
2002	BERTONSBRAKE	Haines & Company
	CENTER	Haines & Company
	BURTONSBRAKE	Haines & Company
	CENTER	Haines & Company
	DOCTORWRENCHON	Haines & Company
	WHEELS	Haines & Company
	WHEELS	Haines & Company
	BERTONSBRAKE	R. L. Polk & Co.
	CENTER BURTONSBRAKE	R. L. Polk & Co.
	CENTER DOCTORWRENCHON	R. L. Polk & Co.
	WHEELS DR WRENCH ON	R. L. Polk & Co.
	WHEELS	R. L. Polk & Co.
2000	B DR WRENCH ON WHEELS	Pacific Bell

Year	Uses	Source
2000	BERTONS BRAKE CENTER	Pacific Bell
1996	BERTONS BRAKE CENTER	PACIFIC BELL DIRECTORY
	B DR WRENCH ON WHEELS	PACIFIC BELL DIRECTORY
1992	B DR WRENCH ON WHEELS	PACIFIC BELL DIRECTORY
	BERTONS BRAKE CENTER	PACIFIC BELL DIRECTORY
1991	Knarf Instruments	PACIFIC BELL WHITE PAGES
1986	Knarf Instruments	PACIFIC BELL WHITE PAGES
	KNARF INSTRUMENTS	PACIFIC BELL WHITE PAGES
1980	Knarf Instruments	Pacific Telephone
1970	S & J CAMPER CO SAN LEANDRO	Pacific Telephone Directory
1965	C & L TRELLIS CO WOOD PRODUCTS	R. L. Polk & Co.
1962	San Leandro Rental Service	Pacific Telephone
1960	SAN LEANDRO RENTAL SERVICE	Pacific Telephone
1959	San Leandro Rental Serv equip e	R. L. Polk & Co.
	i CL LUc Knaven Lz	R. L. Polk & Co.
1955	SANLEANDRO RENTAL SERVICE SAN LEANDRO	The Pacific Telephone & Telegraph Co.

14110 WASHINGTON AVE

Year	Uses	Source
2002	FORITINE OROWEATFOODS	R. L. Polk & Co.
	COENTENMANNS SANLDROAUTO	R. L. Polk & Co.
	UPHOLSTERY T SHIRTFACTORY THE	R. L. Polk & Co.
	KHANNaeem RAINTREE CAR WASH	R. L. Polk & Co.
	T SHIRTFACTORY THE	Haines & Company
	UPHOLSTERY	Haines & Company
	SANLDROAUTO	Haines & Company
	COENTENMANNS	Haines & Company
	OROWEATFOODS	Haines & Company
	FOOTINE 00 U	Haines & Company
2000	T-SHIRT FACTORY THE	Pacific Bell
	SAN LEANDRO AUTO UPHOLSTERY	Pacific Bell
1996	T-SHIRT FACTORY THE	PACIFIC BELL DIRECTORY
	SAN LEANDRO AUTO UPHOLSTERY	PACIFIC BELL DIRECTORY

FINDINGS

Year	Uses	Source
1992	T-SHIRT FACTORY THE	PACIFIC BELL DIRECTORY
	SAN LEANDRO AUTO UPHOLSTERY	PACIFIC BELL DIRECTORY
1991	DJS LE TTE RIN G W ORKS	PACIFIC BELL WHITE PAGES
	D Js Tree Service	PACIFIC BELL WHITE PAGES
	S AN LE AN DRO AUTO UPHOLS TE RY	PACIFIC BELL WHITE PAGES
	San Leandro Ball Park Foot Of Aladdin Av Sn Ldro	PACIFIC BELL WHITE PAGES
	S	PACIFIC BELL WHITE PAGES
1986	Distribution Center	PACIFIC BELL WHITE PAGES
	Bakery Thrift Store	PACIFIC BELL WHITE PAGES
1982	OROWEAT FOODS COMPANY	Pacific Telephone
	OROWEAT FOODS COMPANY	Pacific Telephone
1980	Distribution Centers	Pacific Telephone
	Thrift Stores	Pacific Telephone
1975	OROWEAT BAKING CO	Pacific Telephone
	OROWEAT BAKING CO	Pacific Telephone
1970	OROWEAT BAKING CO SAN LEANDRO	Pacific Telephone Directory
1965	DOLLY MADISON CAKES	R. L. Polk & Co.
	DOLLY MADISON CAKES BAKERY WHOL	R. L. Polk & Co.
1962	DOLLY MADISON CAKES	Pacific Telephone
1960	DOLLY MADISON CAKES	Pacific Telephone
1959	Dolly Madson Cakes e	R. L. Polk & Co.

14111 WASHINGTON AVE

Year	Uses	Source
2002	SMARIO Law rence	R. L. Polk & Co.
	SMARIO Law rence	Haines & Company
1986	Smart Arthur F	PACIFIC BELL WHITE PAGES
	Smarn D	PACIFIC BELL WHITE PAGES
	Smario Larry Landscaping Inc	PACIFIC BELL WHITE PAGES
	LANDSCAPING INC	PACIFIC BELL WHITE PAGES
	SMARIO LARRY	PACIFIC BELL WHITE PAGES
1980	Allied Designers Inc lndscpe desgnrs & contrs	Pacific Telephone

FINDINGS

Year	Uses	Source
1980	Matsu Of California	Pacific Telephone
1970	SMITH EDWARD INC GENL CONTRS SAN LEANDRO	Pacific Telephone Directory
1965	SAUCHEZ JULIAN T	R. L. Polk & Co.
1962	Sanchez J T	Pacific Telephone
1959	Sanchez Julian T	R. L. Polk & Co.

14114 WASHINGTON AVE

Year	Uses	Source
1970	NELSON W W CONTR SAN LEANDRO	Pacific Telephone Directory
1965	AIRE SEAL INC INSULATING GLASS	R. L. Polk & Co.
1962	PAC COAST INSULATION CO	Pacific Telephone
1959	Kasar Mfg & Distributing	R. L. Polk & Co.
	Co Inc airplane parts e	R. L. Polk & Co.

14118 WASHINGTON AVE

Year	Uses	Source
2000	PADILLA LANDSCAPE	Pacific Bell
1996	PADILLA LANDSCAPE	PACIFIC BELL DIRECTORY
1992	NELSON W W RADIATION SHIELDING	PACIFIC BELL DIRECTORY
1991	Nelson Walt	PACIFIC BELL WHITE PAGES
	Nelson W W Radiation Shielding	PACIFIC BELL WHITE PAGES
1986	Nelson W W Radiation Shielding	PACIFIC BELL WHITE PAGES
	Nelson Walt	PACIFIC BELL WHITE PAGES
	NELSON W W RADIATION	PACIFIC BELL WHITE PAGES
	SHIELDING	PACIFIC BELL WHITE PAGES
1980	Nelson W W contr	Pacific Telephone
1970	AMERICAN MAID CATERING CO SAN LEANDRO	Pacific Telephone Directory
1965	DAIGRE ELECTRIC ELECTRICAL CONTR	R. L. Polk & Co.
1962	Daigre Electric Co Inc	Pacific Telephone
1959	Megs Plastic Inc e	R. L. Polk & Co.

FINDINGS

14120 WASHINGTON AVE

Year	*Uses*	*Source*
2002	CUNHA BROS	Haines & Company
	PAINTING OPPR HNGNG	Haines & Company
	CUNHA BROS	R. L. Polk & Co.
	PAINTING OPPR HNGNG	R. L. Polk & Co.
2000	CUNHA BROS PAINTING & PAPERHANGING	Pacific Bell
1996	CUNHA BROS PAINTING & PAPERHANGING	PACIFIC BELL DIRECTORY
1992	LITTON BROS GENERAL CONTRACTORS INC	PACIFIC BELL DIRECTORY
1991	LITTON BROS GE N E RAL CON TRACTORS IN C	PACIFIC BELL WHITE PAGES

14122 WASHINGTON AVE

Year	*Uses*	*Source*
2002	CRONIN CABINET CO	Haines & Company
	CRONIN CABINET CO	R. L. Polk & Co.
2000	CRONIN CABINET CO	Pacific Bell
1996	CRONIN CABINET CO	PACIFIC BELL DIRECTORY
1992	CRONIN CABINET CO	PACIFIC BELL DIRECTORY
1991	Cronin Cabinet Co	PACIFIC BELL WHITE PAGES
1986	San Lorenzo Plumbing	PACIFIC BELL WHITE PAGES
	SAN LORENZO PLUMBING	PACIFIC BELL WHITE PAGES
	SAN LORENZO PLUMBING	PACIFIC BELL WHITE PAGES
1982	SAN LORENZO PLUMBING SAN LEANDRO	Pacific Telephone
1980	San Lorenzo Plumbing	Pacific Telephone
	SAN LORENZO PLUMBING INC	Pacific Telephone
	San Lorenzo Unified School District	Pacific Telephone
1965	BARRY MANUFACTURING CO NOVELTIES MFRS	R. L. Polk & Co.
1959	Barry Mfg Co novelties e	R. L. Polk & Co.

14126 WASHINGTON AVE

Year	*Uses*	*Source*
2002	MFG CO	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
2002	NORCAL DESIGN AND	R. L. Polk & Co.
	NORCAL DESIGN AND	Haines & Company
	MFGCO	Haines & Company
2000	NORCAL DESIGN AND MANUFACTURING CO	Pacific Bell
1996	SEQUEIRA PLUMBING & HEATING	PACIFIC BELL DIRECTORY
1992	SEQUEIRA PLUMBING & HEATING	PACIFIC BELL DIRECTORY
1991	Sequeira Plumbing & Heating	PACIFIC BELL WHITE PAGES
1986	VALLEY WELDING	PACIFIC BELL WHITE PAGES
1980	Harding Construction Co	Pacific Telephone
1975	ACME PLASTICS SAN LEANDRO F	Pacific Telephone
1970	ACME PLASTICS SAN LEANDRO	Pacific Telephone Directory
1965	ACME PLASTICS FORMICA	R. L. Polk & Co.
1959	C Three Aluminum	R. L. Polk & Co.
	Awning Co &ELI 5344	R. L. Polk & Co.

14127 WASHINGTON AVE

Year	Uses	Source
2002	OSANTOS George	R. L. Polk & Co.
	S&S AUTOMOTIVE	R. L. Polk & Co.
	OSANTOS George	Haines & Company
	S&S AUTOMOTIVE	Haines & Company
2000	S & S AUTOMOTIVE	Pacific Bell
1996	S & S AUTOMOTIVE	PACIFIC BELL DIRECTORY
1992	S & S AUTOMOTIVE	PACIFIC BELL DIRECTORY
1986	S & S AUTOMOTIVE	PACIFIC BELL WHITE PAGES
	S &S Automotive	PACIFIC BELL WHITE PAGES
1982	S & S AUTOMOTIVE SAN LEANDRO	Pacific Telephone
1980	S & S Automotive	Pacific Telephone

14130 WASHINGTON AVE

Year	Uses	Source
2002	TKOASSOCIATESINC	R. L. Polk & Co.
	TK 8 ASSOCIATESIRC	Haines & Company

FINDINGS

Year	Uses	Source
2000	T K & ASSOCIATES INC	Pacific Bell
1996	T K & ASSOCIATES INC	PACIFIC BELL DIRECTORY
1992	T K & ASSOCIATES INC	PACIFIC BELL DIRECTORY
1991	T K & Associates Inc	PACIFIC BELL WHITE PAGES
1986	GARDNER T J CO INC	PACIFIC BELL WHITE PAGES
	Gardner Theodore V	PACIFIC BELL WHITE PAGES
	Gardner T J Co Inc	PACIFIC BELL WHITE PAGES
	Gardner Thos L	PACIFIC BELL WHITE PAGES
1980	Hydro Dynamics	Pacific Telephone
1975	PFEIFFER SKYLIGHT CORPORATION	Pacific Telephone
1970	MEG PLASTICS INC SAN LEANDRO	Pacific Telephone Directory
1962	Meg Plastics Inc	Pacific Telephone

14138 WASHINGTON AVE

Year	Uses	Source
2002	DESIDN&MANUFACTU	Haines & Company
	RING CO	Haines & Company
	NORCAL	R. L. Polk & Co.
	DESIGN&MANUFACTU	R. L. Polk & Co.
	RING CO	R. L. Polk & Co.
	NORCAL	Haines & Company
2000	NORCAL DESIGN AND MANUFACTURING CO	Pacific Bell
1996	NORCAL DESIGN AND MANUFACTURING CO	PACIFIC BELL DIRECTORY
1992	NORCAL DESIGN AND MANUFACTURING CO	PACIFIC BELL DIRECTORY
1991	Norcal Design And Manufacturing Co	PACIFIC BELL WHITE PAGES
1986	MANUFACTURING CO-	PACIFIC BELL WHITE PAGES
	NORCAL DESIGN AND	PACIFIC BELL WHITE PAGES
	Norcal Design And Manufacturing Co	PACIFIC BELL WHITE PAGES
1980	ROBERTS HYDRAULIC SALES	Pacific Telephone
	APPLIED HYDRAULIC SYSTEMS INC	Pacific Telephone
1970	ROBERTS HYDRAULIC SALES SAN LEANDRO	Pacific Telephone Directory

Year	Uses	Source
1965	GRACE W R & CO CRYONAC DIV PLASTIC MFRS	R. L. Polk & Co.
1962	Grace W R & Co Cryovac Division	Pacific Telephone
	Cryovac Co Division of W R Grace & Co	Pacific Telephone
1959	vac Div plastic mfrs ex	R. L. Polk & Co.
	Grace W R & Co Cryo	R. L. Polk & Co.

14140 WASHINGTON AVE

Year	Uses	Source
2002	MIRACLE AUTO	Haines & Company
	PAINTING	Haines & Company
	MIRACLE AUTO	R. L. Polk & Co.
	PAINTING	R. L. Polk & Co.
2000	MIRACLE AUTO PAINTING	Pacific Bell
1996	MIRACLE AUTO PAINTING	PACIFIC BELL DIRECTORY
1992	MIRACLE AUTO PAINTING	PACIFIC BELL DIRECTORY
1991	Miracle Ear No Charge To Calling Party	PACIFIC BELL WHITE PAGES
1986	Miracle Method Bathtub Refinishing	PACIFIC BELL WHITE PAGES
	MIRACLE AUTO PAINTING	PACIFIC BELL WHITE PAGES
1982	MIRACLE AUTO PAINTING SAN LEANDRO	Pacific Telephone
1980	Miracle Auto Painting	Pacific Telephone
1976	MIRACLE AUTO PAINTING CO	R. L. Polk & Co.
1975	BAYSIDE UPHOLSTERY	Pacific Telephone
	MIRACLE AUTO PAINTING CO	Pacific Telephone
1973	BAYSIDE UPHOLSTERY	Pacific Telephone
	MIRACLE AUTO PAINTING CO	Pacific Telephone
1970	BAYSIDE UPHOLSTERY SAN LEANDRO	Pacific Telephone Directory
	MIRACLE AUTO PAINTING CO SAN LEANDRO	Pacific Telephone Directory
1965	VACANT	R. L. Polk & Co.
1962	S & S BUILDING SUPPLY INC	Pacific Telephone
1959	S & S Building Sup Co lbr and hdw e	R. L. Polk & Co.
1955	RIVERS JOE SAN LEANDRO	The Pacific Telephone & Telegraph Co.
1950	MARKS JOS R	The Pacific Telephone & Telegraph Co.

FINDINGS

14160 WASHINGTON AVE

Year	Uses	Source
2002	FIRSTCARTHE	Haines & Company
	FIRSTCARTHE	R. L. Polk & Co.
2000	FIRST CAR THE	Pacific Bell

14200 WASHINGTON AVE

Year	Uses	Source
2002	LARSENPalnra	R. L. Polk & Co.
	LUMBER CO	R. L. Polk & Co.
	LARSENBROS	R. L. Polk & Co.
	LARSENBROS	Haines & Company
	LUMBER CO	Haines & Company
	SLARSENPalrna	Haines & Company
2000	LARSEN BROS LUMBER CO	Pacific Bell
1996	LARSEN BROS LUMBER CO	PACIFIC BELL DIRECTORY
1992	LARSEN BROS LUMBER CO	PACIFIC BELL DIRECTORY
1991	LUMBE R CO	PACIFIC BELL WHITE PAGES
1986	CUSTOM COMMUNICATION	PACIFIC BELL WHITE PAGES
	SERVICES CORP	PACIFIC BELL WHITE PAGES
	LARSEN BROS LUMBER CO	PACIFIC BELL WHITE PAGES
	LARS E N BROS W LUMBE R CO	PACIFIC BELL WHITE PAGES
1982	LARSEN BROS LUMBER CO SAN LEANDRO	Pacific Telephone
1980	LARSEN BROS LUMBER CO	Pacific Telephone
1979	LARSEN BROS LUMBER CO	Pacific Telephone
1975	LARSEN BROS LUMBER CO	Pacific Telephone
1973	LARSEN BROS LUMBER CO	Pacific Telephone
1970	LARSEN BROS LUMBER CO SAN LEANDRO	Pacific Telephone Directory
1965	HOME LUMBER & SUPPLY CO	R. L. Polk & Co.
	HOME LUMBER 6 SUPPLY CO	R. L. Polk & Co.
1962	Wyllie Lumber Co	Pacific Telephone
1959	Wyllie Lbr Co e	R. L. Polk & Co.
1955	WYLLIE LUMBER CO SAN LEANDRO	The Pacific Telephone & Telegraph Co.

FINDINGS

Year	Uses	Source
1950	YARD	The Pacific Telephone & Telegraph Co.

14260 WASHINGTON AVE

Year	Uses	Source
2004	OCCUPANT UNKNOWN	Cole Information Services
	AAA DRAPERY CO	Cole Information Services
2002	LEANDRO	R. L. Polk & Co.
	AAADRAPERYCO 510 483 6 S	Haines & Company
	SERVPROOFSAN	Haines & Company
	LEANDRO	Haines & Company
	AAADRAPERYCO	R. L. Polk & Co.
	SERVPROOFSAN	R. L. Polk & Co.
2000	SERVPRO OF SAN LEANDRO	Pacific Bell
	A A A DRAPERY CO	Pacific Bell
1999	SERVPRO OF SAN LEANDRO	Cole Information Services
	A A A DRAPERY COMPANY	Cole Information Services
	SERVPRO OF HAYWARD	Cole Information Services
1996	SERVPRO OF SAN LEANDRO	PACIFIC BELL DIRECTORY
	A A A DRAPERY CO	PACIFIC BELL DIRECTORY
1994	SERVPRO OF SAN LEANDRO	Cole Information Services
	AAA DRAPERY CO	Cole Information Services
	SERVPRO OF HAYWARD	Cole Information Services
	ADORN DRAPERIES	Cole Information Services
1992	SERVPRO OF SAN LEANDRO	PACIFIC BELL DIRECTORY
	A A A DRAPERY CO	PACIFIC BELL DIRECTORY

14280 WASHINGTON AVE

Year	Uses	Source
2017	PUBLIC STORAGE	Cole Information Services
2014	PUBLIC STORAGE	Cole Information Services
2009	PUBLIC STORAGE	Cole Information Services
2004	PUBLIC STORAGE INC	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
2002	PUBLIC STORAGE	Haines & Company

FINDINGS

Year	Uses	Source
2002	PUBLIC STORAGE	R. L. Polk & Co.
2000	PUBLIC STORAGE	Pacific Bell
1999	PUBLIC STORAGE	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1996	PUBLIC STORAGE	PACIFIC BELL DIRECTORY
1994	PUBLIC STORAGE	Cole Information Services
1992	PUBLIC STORAGE	PACIFIC BELL DIRECTORY
1991	San Leandro	PACIFIC BELL WHITE PAGES

14281 WASHINGTON AVE

Year	Uses	Source
2002	MORGANHenry	R. L. Polk & Co.
	MORGANHenry 00 U	Haines & Company

14290 WASHINGTON AVE

Year	Uses	Source
2002	XXXX	Haines & Company
	XXXX	R. L. Polk & Co.
1986	Harleys Burgers	PACIFIC BELL WHITE PAGES
	HARLEY S BURGERS	PACIFIC BELL WHITE PAGES
1980	Harleys Burgers	Pacific Telephone
1970	TOMMY S DRIVE IN SAN LEANDRO	Pacific Telephone Directory
1965	TOMMYS DRIVE IN RESTR	R. L. Polk & Co.
1962	Tommys Drive In	Pacific Telephone
1959	Vacant	R. L. Polk & Co.

14291 WASHINGTON AVE

Year	Uses	Source
2002	XXXX	R. L. Polk & Co.
	XXXX	Haines & Company

14300 WASHINGTON AVE

Year	Uses	Source
1965	DAVES RICHFIELD GAS STA	R. L. Polk & Co.
1962	Neno Quintanas Richfield Service	Pacific Telephone

Year	Uses	Source
1962	Mixermobile Sales & Service Inc	Pacific Telephone
1959	Fletchers Richfield Serv gas sta AEL	R. L. Polk & Co.
1955	MIXERMOBILE SALES & SERVICE INC SAN LEANDRO	The Pacific Telephone & Telegraph Co.

14301 WASHINGTON AVE

Year	Uses	Source
1950	AMER STEEL ENGINEERING	The Pacific Telephone & Telegraph Co.

WASHINGTON BLVD

14127 WASHINGTON BLVD

Year	Uses	Source
1991	S & S Automotive	PACIFIC BELL WHITE PAGES

WASHINGTON ST

14122 WASHINGTON ST

Year	Uses	Source
1962	BARRY MFG CO	Pacific Telephone

14200 WASHINGTON ST

Year	Uses	Source
1976	LARSEN BROS LUMBER CO	R. L. Polk & Co.

FINDINGS

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
14000 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14010 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14060 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1960, 1956, 1954, 1951, 1946, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14074 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 2002, 1999, 1994, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14074 WASHINGTON AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14078 WASHINGTON AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14078 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 2002, 1999, 1994, 1993, 1992, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14082 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 1999, 1994, 1993, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14082 WASHINGTON AVE	2017, 2009, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14084 WASHINGTON AVE	2017, 2014, 2009, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14084 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 1999, 1996, 1994, 1993, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14086 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14086 WASHINGTON AVE	2017, 2006, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
14088 WASHINGTON AVE	2017, 2014, 2009, 2006, 2002, 2000, 1999, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14088 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 1999, 1994, 1993, 1992, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1960, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14100 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1956, 1955, 1954, 1951, 1946, 1943, 1940, 1933, 1932, 1928, 1926, 1925, 1920
14105 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 1999, 1994, 1993, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14110 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 1999, 1994, 1993, 1984, 1979, 1976, 1973, 1967, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14111 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1960, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14114 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1960, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14118 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 2002, 1999, 1994, 1993, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1960, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14120 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 1999, 1994, 1993, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14122 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 1999, 1994, 1993, 1984, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14122 WASHINGTON ST	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14126 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 1999, 1994, 1993, 1984, 1982, 1979, 1976, 1973, 1967, 1962, 1960, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14127 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 1999, 1994, 1993, 1991, 1984, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14127 WASHINGTON BLVD	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14130 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 1999, 1994, 1993, 1984, 1982, 1979, 1976, 1973, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
14138 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 1999, 1994, 1993, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1960, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14140 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 1999, 1994, 1993, 1984, 1979, 1967, 1960, 1956, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14160 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14200 CHAPMAN RD	2017, 2009, 2006, 2002, 2000, 1999, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14200 CHAPMAN RD	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14200 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 1999, 1994, 1993, 1984, 1976, 1967, 1960, 1956, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14200 WASHINGTON ST	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14260 WASHINGTON AVE	2017, 2014, 2009, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14260 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 1999, 1994, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14280 WASHINGTON AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14280 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 1999, 1994, 1993, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14281 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14290 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1960, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14291 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
14300 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1960, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
14301 WASHINGTON AVE	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
235 139TH AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
295 139TH AVE	2017, 2014, 2009, 2006, 2004, 1999, 1994, 1993, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
295 139TH AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
296 139TH AVE	2017, 2006, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
296 139TH AVE	2017, 2014, 2009, 2006, 2004, 1999, 1994, 1993, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
298 139TH AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
298 139TH AVE	2017, 2014, 2009, 2006, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
344 139TH AVE	2017, 2014, 2009, 2006, 2004, 1999, 1994, 1993, 1984, 1982, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
344 139TH AVE	2017, 2014, 2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
350 139TH AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1993, 1992, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
501 143RD AVE	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1960, 1956, 1954, 1951, 1950, 1946, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
530 13TH AVE	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1926, 1925, 1920
534 143RD AVE	2017, 2014, 2009, 2006, 2004, 1999, 1994, 1993, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1960, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
534 143RD AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
555 143RD AV SL	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
555 143RD AVE	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1979, 1976, 1973, 1970, 1967, 1960, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
564 143RD AVE	2017, 2014, 2009, 2006, 2004, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
564 143RD AVE	2009, 2006, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
601 143RD AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
601 143RD AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1994, 1993, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1960, 1956, 1955, 1954, 1951, 1950, 1946, 1943, 1940, 1933, 1932, 1928, 1926, 1925, 1920
601 143RD AVSO TR INIDAD	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
635 143RD AVE	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1933, 1932, 1928, 1926, 1925, 1920
635 143RD AVS TR INIDAD	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
640 143RD AVE	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
641 143RD AV SL	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
641 143RD AVE	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1984, 1980, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
750 139TH AVE	2017, 2014, 2009, 2006, 2004, 1999, 1994, 1993, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
750 139TH AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
760 139TH AVE	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
900 19TH AVE	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1933, 1932, 1926
950 19TH AVE	2017, 2014, 2009, 2006, 2004, 2002, 2000, 1999, 1996, 1994, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1954, 1951, 1946, 1943, 1940, 1932, 1926, 1925, 1920

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
14143-14273 Washington Ave	2006, 1993, 1984, 1979, 1976, 1973, 1967, 1960, 1956, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

APPENDIX F

EDR Radius Map Report with GeoCheck®

Washington Ave. San Leandro
14143-14273 Washington Ave
San Leandro, CA 94578

Inquiry Number: 6617648.3s
August 12, 2021

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

14143-14273 WASHINGTON AVE
SAN LEANDRO, CA 94578

COORDINATES

Latitude (North):	37.7065350 - 37° 42' 23.52''
Longitude (West):	122.1449820 - 122° 8' 41.93''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	575369.1
UTM Y (Meters):	4173394.2
Elevation:	39 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5641120 SAN LEANDRO, CA
Version Date:	2012
East Map:	5640616 HAYWARD, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140608
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
14143-14273 WASHINGTON AVE
SAN LEANDRO, CA 94578

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	UNITED RENTALS	14273 WASHINGTON AVE	HWTS		TP
A2	ZERMENOS CUSTOM IRON	14143 WASHINGTON AVE	FINDS		TP
A3	1X SAN LEANDRO RENTA	14273 WASHINGTON AVE	HAZNET, HWTS		TP
A4	SAN LEANDRO RENTAL	14273 WASHINGTON AVE	LUST, SWEEPS UST, WDS, CIWQS, HWTS		TP
A5	R.L. STEVENS COMPANY	14273 WASHINGTON AVE	LUST, HAZNET, HIST CORTESE, CERS, HWTS		TP
A6	SAN LEANDRO RENTAL S	14273 WASHINGTON AVE	RGA LUST		TP
A7	ZERMENOS CUSTOM IRON	14143 WASHINGTON AVE	CERS		TP
A8	APOLLO MOTORHOME HOL	14273 WASHINGTON AVE	CERS		TP
A9	APOLLO MOTORHOME HOL	14273 WASHINGTON AVE	RCRA NonGen / NLR		TP
A10	SAN LEANDRO RENTAL	14273 WASHINGTON AVE	Cortese, HAZNET, HWTS		TP
A11	APOLLO MOTORHOME HOL	14273 WASHINGTON AVE	FINDS, ECHO		TP
A12	APOLLO MOTORHOME HOL	14273 WASHINGTON AVE	HWTS		TP
A13	SAN LEANDRO RENTAL	14273 WASHINGTON AVE	RGA LUST		TP
A14	SAN LEANDRO RENTAL	14273 WASHINGTON AVE	FINDS		TP
A15	UNITED RENTALS INC #	14273 WASHINGTON AVE	HAZNET, HWTS		TP
B16	MIRACLE AUTO PAINTIN	14141 WASHINGTON BLV	HAZNET, HWTS	Higher	1 ft.
B17	S & S AUTO INC	14127 WASHINGTON AVE	RCRA NonGen / NLR	Higher	8, 0.002, NW
B18	S & S AUTOMOTIVE	14127 WASHINGTON AVE	CERS HAZ WASTE, CERS	Higher	8, 0.002, NW
B19	MIRACLE AUTO PAINTIN	14140 WASHINGTON AVE	RCRA-SQG, FINDS, ECHO, EMI, HAZNET, CERS, HWTS	Higher	81, 0.015, North
B20	ISLAND AUTO & BODY R	14140 WASHINGTON AVE	RCRA NonGen / NLR	Higher	81, 0.015, North
B21	ISLAND AUTO	14140 WASHINGTON AVE	CERS HAZ WASTE, CERS	Higher	81, 0.015, North
B22	SANDEEP SINGH DBA IS	14140 WASHINGTON AVE	RCRA NonGen / NLR	Higher	81, 0.015, North
B23	LARSEN BROS LUMBER I	14200 WASHINGTON AVE	RCRA-SQG, FINDS, ECHO, HAZNET, HWTS	Higher	97, 0.018, NNE
B24	LARSON BROTHERS LUMB	14200 WASHINGTON AVE	LUST, Cortese, HIST CORTESE, CERS	Higher	97, 0.018, NNE
B25	LARSEN BROS.	14200 WASHINGTON	SWEEPS UST, CA FID UST	Higher	97, 0.018, NNE
B26	RONIN PRODUCT DEVELO	14130 WASHINGTON AVE	RCRA NonGen / NLR	Higher	98, 0.019, North
B27	ENGEL HOLDINGS INC D	14160 WASHINGTON AVE	CERS HAZ WASTE, HAZNET, CERS, HWTS	Higher	101, 0.019, North
B28	ENGEL HOLDINGS INC D	14160 WASHINGTON AVE	RCRA NonGen / NLR	Higher	101, 0.019, North
B29	SUPERIOR GUNITE	14160 WASHINGTON AVE	RCRA NonGen / NLR	Higher	101, 0.019, North
A30	CTY OF SAN LEANDRO P	14200 CHAPMAN RD	SWEEPS UST, HIST UST, CA FID UST	Lower	110, 0.021, SW
A31	ALAMEDA COUNTY HHW P	14200 CHAPMAN ST	RCRA NonGen / NLR	Lower	110, 0.021, SW
A32	PUBLIC WORKS SERVICE	14200 CHAPMAN RD.	UST, CERS HAZ WASTE, HIST UST, CERS TANKS, CERS	Lower	110, 0.021, SW
A33	CITY OF SAN LEANDRO	14200 CHAPMAN RD.	RCRA NonGen / NLR	Lower	110, 0.021, SW
C34	TE BROWN INC	14301 WASHINGTON AVE	HIST UST	Higher	209, 0.040, SE
C35	MORGAN BROTHERS PATI	14305 WASHINGTON BLV	LUST, Cortese, HIST CORTESE, CERS	Higher	215, 0.041, SE
C36	MORGAN BROTHERS PATI	14305 S WASHINGTON A	SWEEPS UST, CA FID UST	Higher	215, 0.041, SE
C37	MORGAN BROS PATIOS	14305 WASHINGTON AVE	HIST UST	Higher	215, 0.041, SE
C38	FLETCHER S RICHFIELD	14300 WASHINGTON A	EDR Hist Auto	Higher	222, 0.042, ESE
C39	UNIVERSAL AUTO CENTE	14320 WASHINGTON AVE	RCRA NonGen / NLR	Higher	248, 0.047, ESE

MAPPED SITES SUMMARY

Target Property Address:
14143-14273 WASHINGTON AVE
SAN LEANDRO, CA 94578

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
C40	UNIVERSAL AUTO CENTE	14320 WASHINGTON AVE	CERS HAZ WASTE, CERS	Higher	248, 0.047, ESE
D41	295 139TH AVE	295 139TH AVE	Alameda County CS	Higher	288, 0.055, NNW
D42	295 139TH AVENUE	295 139TH AVENUE	CPS-SLIC, CERS	Higher	288, 0.055, NNW
C43	H/T AUTO REPAIR	14330 WASHINGTON AVE	RCRA NonGen / NLR	Higher	335, 0.063, ESE
C44	H/T AUTO REPAIR AND	14330 WASHINGTON AVE	CERS HAZ WASTE, CERS	Higher	335, 0.063, ESE
D45	UNION AUTO REPAIR	14078 WASHINGTON AVE	RCRA NonGen / NLR	Higher	350, 0.066, NNW
D46	UNION AUTO REPAIR	14078 WASHINGTON AVE	CERS HAZ WASTE, CERS, HWTS	Higher	350, 0.066, NNW
C47	SUPERIOR LIFT TRUCKS	14315 WASHINGTON AVE	RCRA NonGen / NLR	Higher	371, 0.070, SE
C48	SUPERIOR LIFT TRUCKS	14315 WASHINGTON AVE	HIST UST	Higher	371, 0.070, SE
C49	SUPERIOR LIFT TRUCKS	14315 WASHINGTON AVE	SWEEPS UST, CA FID UST	Higher	371, 0.070, SE
C50	BUD & RAY S BODY & P	14315 WASHINGTON A	EDR Hist Auto	Higher	371, 0.070, SE
C51	SAN LEANDRO COLLISIO	14332 WASHINGTON AVE	CERS HAZ WASTE	Higher	388, 0.073, SE
C52	PRESTIGE AUTO BODY	14332 WASHINGTON AVE	RCRA-SQG, FINDS, ECHO, HAZNET, HWTS	Higher	388, 0.073, SE
C53	SAN LEANDRO COLLISIO	14332 WASHINGTON AVE	RCRA NonGen / NLR	Higher	388, 0.073, SE
C54	AUTO KING GEN AUTO R	14334 WASHINGTON AVE	RCRA-SQG, FINDS, ECHO	Higher	411, 0.078, SE
E55	PACIFIC BELL CO CD P	564 143RD	SWEEPS UST, HIST UST, CA FID UST, RCRA NonGen /...	Higher	412, 0.078, East
F56	COLISEUM TRANSMISSIO	14074 WASHINGTON AVE	RCRA NonGen / NLR	Higher	425, 0.080, North
F57	COLISEUM TRANSMISSIO	14074 WASHINGTON AVE	CERS HAZ WASTE, CERS	Higher	425, 0.080, North
C58	THE GARAGE BODY SHOP	14336 WASHINGTON AVE	CERS HAZ WASTE, HAZNET	Higher	438, 0.083, SE
C59	PALACE GARAGE	14336 WASHINGTON AVE	LUST, Alameda County CS, Cortese, HIST CORTESE,...	Higher	438, 0.083, SE
C60	THE GARAGE BODY SHOP	14336 WASHINGTON AVE	RCRA NonGen / NLR	Higher	438, 0.083, SE
G61	FRANK GHIGLIONE DBA	14327 WASHINGTON AVE	RCRA NonGen / NLR	Higher	523, 0.099, SE
G62	RODGERS TRUCKING CO	14327 WASHINGTON AVE	SWEEPS UST, CA FID UST, WDS, CIWQS, CERS	Higher	523, 0.099, SE
G63	RODGERS TRUCKING CO.	14327 WASHINGTON AVE	UST	Higher	523, 0.099, SE
G64	RODGERS TRUCKING CO	14327 WASHINGTON AVE	LUST, CERS TANKS, Cortese, HIST CORTESE, NPDES,...	Higher	523, 0.099, SE
E65	SAN LEANDRO-AMR	642 143RD ST	AST	Higher	592, 0.112, ENE
E66	ENVIRONMENTAL SAMPLI	640 143RD AVE	RCRA NonGen / NLR	Higher	592, 0.112, ENE
E67	ENVIRONMENTAL SAMPLI	640 143RD AVE	CERS HAZ WASTE, CERS, HWTS	Higher	592, 0.112, ENE
G68	STEELFORM CONTRACTIN	14340 WASHINGTON AVE	HIST UST	Higher	597, 0.113, SE
G69	STEELFORM CONTRACTIN	14340 WASHINGTON AVE	LUST, SWEEPS UST, CA FID UST, Cortese, HIST...	Higher	597, 0.113, SE
70	S&S BUILDING SUPPLY	701 FREMONT	LUST, Alameda County CS, SWEEPS UST, CA FID UST,...	Lower	599, 0.113, SW
71	REVOLT RECYCLING LLC	657 143RD AVE	RCRA NonGen / NLR	Higher	600, 0.114, ENE
H72	KP LLC	13951 WASHINGTON AVE	RCRA-SQG, FINDS, ECHO, EMI	Higher	609, 0.115, NNW
H73	KP LLC	13951 WASHINGTON AVE	CERS HAZ WASTE, HAZNET, CERS, HWTS	Higher	609, 0.115, NNW
74	DWA PLUME	SAN LEANDRO (GROUNDW	RESPONSE, ENVIROSTOR, HIST Cal-Sites, Cortese,...	Higher	687, 0.130, NNE
I75	ONE HUNDRED THIRTY-N	750 139TH STREET	CA BOND EXP. PLAN	Higher	694, 0.131, NNE
I76	WEAVER PROPERTY	750 139TH ST	CPS-SLIC, CERS	Higher	694, 0.131, NNE
I77	CINTAS/DEDOMINICO SI	777 139TH AVENUE	HIST Cal-Sites, EMI, CERS	Higher	741, 0.140, North
I78	WEST COAST CINTAS CO	777 139TH AVE	RCRA-SQG	Higher	741, 0.140, North

MAPPED SITES SUMMARY

Target Property Address:
14143-14273 WASHINGTON AVE
SAN LEANDRO, CA 94578

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
I79	CINTAS OPERATION # 5	777 139TH AVE	CPS-SLIC	Higher	741, 0.140, North
I80	CINTAS CORP #54	777 139TH AVE	CPS-SLIC, HAZNET, HWTS	Higher	741, 0.140, North
I81	CONTAS CORP	777 139TH AVE	HIST UST	Higher	741, 0.140, North
I82	CINTAS CORPORATION	777 139TH AVE	RESPONSE, ENVIROSTOR, LUST, SWEEPS UST, CA FID...	Higher	741, 0.140, North
H83	PG&E SAN LEANDRO U S	13939 WASHINGTON ST.	RCRA NonGen / NLR	Higher	841, 0.159, NNW
H84	PG&E	13939 WASHINGTON STR	RCRA NonGen / NLR	Higher	841, 0.159, NNW
H85	PG&E - U SUBSTATION	13939 WASHINGTON AV	AST	Higher	841, 0.159, NNW
H86	PACIFIC GAS AND ELEC	13939 WASHINGTON	RCRA NonGen / NLR	Higher	841, 0.159, NNW
I87	SPECTRUM BODY AND PA	760 139TH AVE	RCRA NonGen / NLR	Higher	891, 0.169, NNE
I88	CALIBER COLLISION CE	760 139TH AVE	RCRA NonGen / NLR	Higher	891, 0.169, NNE
I89	CALIBER COLLISION CE	760 139TH AVE	CERS HAZ WASTE, HAZNET, CERS, HWTS	Higher	891, 0.169, NNE
90	AMARAL SAUSAGE	735 FREMONT AVE	LUST, Cortese, HIST CORTESE, CERS	Lower	912, 0.173, SW
J91	COORDINATED WIRE ROP	790 139TH AVE	RCRA NonGen / NLR	Higher	972, 0.184, NNE
92	PARKSIDE COMMONS APA	900 143RD AVE	LUST, CPS-SLIC, Alameda County CS, Cortese, HIST...	Higher	995, 0.188, ENE
J93	SERVICE PLASTERING I	1090 139TH AVENUE	HIST UST	Higher	1023, 0.194, NNE
J94	SERVICE PLASTERING	1090 139TH AVE	LUST, SWEEPS UST, CA FID UST, Cortese, HIST...	Higher	1023, 0.194, NNE
K95	T.E. BROWN, INC.	14361 WASHINGTON AVE	HIST UST	Higher	1087, 0.206, SE
K96	T.E. BROWN, INC.	14361 WASHINGTON AVE	SWEEPS UST, CA FID UST	Higher	1087, 0.206, SE
J97	GHIRARDELLI CHOCOLAT	1111 139TH AVE	RCRA-SQG	Higher	1142, 0.216, NNE
J98	GHIRARDELLI CHOCOLAT	1111 139TH AVE	CERS HAZ WASTE, CERS	Higher	1142, 0.216, NNE
J99	GHIRARDELLI CHOCOLAT	1111 139TH AVE	LUST, Alameda County CS, SWEEPS UST, HIST UST, CA...	Higher	1142, 0.216, NNE
J100	GHIRARDELLI CHOCOLAT	1111 139TH AVENUE	RCRA NonGen / NLR, FINDS, ECHO	Higher	1142, 0.216, NNE
J101	CENTURY PLATING COMP	1124 139TH AVE	SEMS-ARCHIVE, LIENS 2, PRP	Higher	1217, 0.230, NNE
J102	CENTURY PLATING COMP	1124 139TH AVENUE	RESPONSE, ENVIROSTOR, HIST Cal-Sites, LIENS, HIST...	Higher	1217, 0.230, NNE
103	SAN FRANCISCO NIKE 3		RESPONSE, ENVIROSTOR	Higher	1482, 0.281, WNW
L104	FIRE STATION 12	1065 143RD AVE	LUST, Cortese	Higher	1515, 0.287, NE
L105	FIRE STATION 12	1065 143RD AVE	LUST, HIST UST, CERS	Higher	1515, 0.287, NE
106	MAXWELL HOUSE, DIV O	100 HALCYON DRIVE	LUST, Alameda County CS, SWEEPS UST, HIST UST, CA...	Higher	1591, 0.301, ESE
M107	MONTGOMERY WARD	3000 ALVARADO	LUST, HIST UST, HIST CORTESE, CERS	Lower	1737, 0.329, West
M108	MONTGOMERY WARD	3000 ALVARADO	LUST, Cortese	Lower	1737, 0.329, West
N109	ALAMEDA COUNTY INDUS	610 ALADDIN AVENUE	SWF/LF, HWTS	Higher	1752, 0.332, WNW
N110	ALAMEDA COUNTY INDUS	610 ALADDIN AVE	SWF/LF, HAULERS, CERS HAZ WASTE, NPDES, CIWQS,...	Higher	1752, 0.332, WNW
O111	ED CHOVANES FORD	13889 E 14TH ST	Alameda County CS, HIST UST	Higher	1868, 0.354, NNE
O112	ED CHOUANES FORD, IN	13889 E 14TH ST	RCRA-SQG, LUST, HIST UST, FINDS, ECHO, Cortese,...	Higher	1868, 0.354, NNE
113	STAEFA CONTROL SYSTE	2481 WASHINGTON AVE	SEMS-ARCHIVE	Higher	1909, 0.362, NNW
114	VUKOVIC DEVELOPMENT	0 WASHINGTON AVE & H	CPS-SLIC, Alameda County CS, CERS	Higher	1984, 0.376, SSE
115	WILLAMETTE INDUSTRIE	2800 ALVARADO	LUST, Cortese, HIST CORTESE, NPDES, CERS	Higher	2038, 0.386, West
P116	TRANSCON LINES	601 ALADIN AVENUE	Notify 65	Higher	2080, 0.394, WNW
P117	TRANSCON LINES	601 ALADDIN AVE	RESPONSE, ENVIROSTOR, LUST, SWEEPS UST, CA FID...	Higher	2080, 0.394, WNW

MAPPED SITES SUMMARY

Target Property Address:
14143-14273 WASHINGTON AVE
SAN LEANDRO, CA 94578

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
P118	ACI BULKY ITEM SORTI	601 ALLADIN AVE.	SWF/LF, CERS	Higher	2080, 0.394, WNW
119	HUDSON	400 HUDSON LN	LUST, Alameda County CS, HIST UST, Cortese, HIST...	Higher	2222, 0.421, NW
Q120	U. S. CAN COMPANY SI	2756 ALVARADO STREET	RESPONSE, ENVIROSTOR, HIST Cal-Sites, EMI	Higher	2279, 0.432, WNW
Q121	UNITED STATES CAN CO	2756 ALVARADO	Notify 65	Higher	2279, 0.432, WNW
122	STAEFA CO	2481 SAN LEANDRO BLV	ENVIROSTOR, VCP, HAZNET, HWTS	Higher	2284, 0.433, NNW
R123	K MART	250 FLORESTA	LUST, Cortese	Lower	2300, 0.436, SSE
R124	K MART ENTERPRISES	250 FLORESTA BLVD	LUST, HIST UST, HIST CORTESE, CERS	Lower	2300, 0.436, SSE
125	WASHINGTON SQUARE	14400 WASHINGTON AVE	LUST, Cortese, HIST CORTESE, CERS	Higher	2390, 0.453, SE
126	DUNITZ & STERN	3050 TEAGARDEN	LUST, Cortese, CERS	Lower	2427, 0.460, West
S127	SINGER FRIDEN	2350 AND 2450 WASHIN	RESPONSE, ENVIROSTOR, HIST Cal-Sites, Cortese,...	Higher	2475, 0.469, NNW
128	CAR STORE THE	14285 14TH ST E	LUST, Cortese, HIST CORTESE, CERS	Higher	2523, 0.478, NE
Q129	BICOASTAL PROPERTIES	2711 ALVARADO ST	LUST, Alameda County CS, Cortese, HIST CORTESE,...	Lower	2526, 0.478, WNW
S130	SINGER FRIDEN NPDES	2411 WASHINGTON AVE.	CPS-SLIC, CERS	Higher	2555, 0.484, NNW
S131	WASTE OIL RECOVERY S	2411 WASHINGTON AVE	ENVIROSTOR, HAZNET, HWTS	Higher	2555, 0.484, NNW
T132	SIMAS BROS SERVICE S	14180 14TH ST E	LUST, Cortese, HIST CORTESE, CERS	Higher	2581, 0.489, NE
T133	SIMAS BROS SERVICE S	14180 E 14TH ST	Alameda County CS	Higher	2581, 0.489, NE
134	TRW	820 ALADDIN AVE	CPS-SLIC, CERS	Lower	2637, 0.499, WNW
135	FORD STAGING SITE (9	13900 14TH STREET	ENVIROSTOR, SCH	Higher	2885, 0.546, NNE
136	VAN BOKKELEN & SONS	688 - 700 MONTAGUE A	LUST, Cortese, HIST CORTESE, Notify 65, CERS	Higher	2891, 0.548, WNW
U137	SINGER - FRIDEN SITE	2350 WASHINGTON AVE	Notify 65	Higher	2927, 0.554, NNW
U138	SINGER-FRIDEN SITE	2350 WASHINGTON AVE	Notify 65	Higher	2927, 0.554, NNW
139	H W MCKEVITT CO INC	467 MARINA BLVD	ENVIROSTOR, VCP, HAZNET, HWTS	Higher	3358, 0.636, NW
140	SAN LEANDRO HIGH SCH	2200 BANCROFT AVENUE	ENVIROSTOR, SCH	Higher	3631, 0.688, North
141	SAN LEANDRO USD/JEFF	14311 LARK ST	ENVIROSTOR, SCH, HAZNET, HWTS	Higher	3658, 0.693, NE
142	RIDING GROUP	14844-14860 EAST 14T	ENVIROSTOR	Higher	3739, 0.708, East
143	PETERSON TRACTOR COM	955 MARINA BLVD	ENVIROSTOR, LUST, Alameda County CS, Cortese, ENF,...	Higher	4423, 0.838, WNW
V144	FACTOR AVENUE PLUME	1465 FACTOR AVENUE	CA BOND EXP. PLAN	Lower	4493, 0.851, WSW
V145	SIMMONS - SOILS	1465 FACTOR AVENUE/1	RESPONSE, ENVIROSTOR, CERS	Lower	4493, 0.851, WSW
146	UNOCAL #3292	15008 E. 14TH ST.	Notify 65, CERS	Higher	4518, 0.856, East
147	USA PETROLEUM	15120 HEPERIAN BOULE	Notify 65	Lower	4756, 0.901, ESE
W148	CORRPRO COMPANIES IN	2799 MILLER ST	RESPONSE, ENVIROSTOR, HAZNET, HWTS	Lower	5108, 0.967, West
W149	DANA CORPORATION	2799 MILLER STREET	HIST Cal-Sites, CERS	Lower	5108, 0.967, West
150	ROTO-ROOTER	14985 WASHINGTON AVE	Notify 65	Lower	5209, 0.987, SSE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
UNITED RENTALS 14273 WASHINGTON AVE SAN LEANDRO, CA 94578	HWTS	N/A
ZERMENOS CUSTOM IRON 14143 WASHINGTON AVE SAN LEANDRO, CA 94578	FINDS Registry ID:: 110065417686	N/A
1X SAN LEANDRO RENTA 14273 WASHINGTON AVE SAN LEANDRO, CA 94578	HAZNET GEPAID: CAC000544944 HWTS	N/A
SAN LEANDRO RENTAL 14273 WASHINGTON AVE SAN LEANDRO, CA 94578	LUST Database: LUST REG 2, Date of Government Version: 09/30/2004 Facility Id: 01-1295 Facility Status: Case Closed date9: 7/8/1997 SWEEPS UST Comp Number: 507 WDS Facility Status: A Facility Id: 2 01I018349 CIWQS HWTS	N/A
R.L. STEVENS COMPANY 14273 WASHINGTON AVE SAN LEANDRO, CA 94578	LUST Database: LUST, Date of Government Version: 03/08/2021 Status: Completed - Case Closed Global Id: T0600101191 HAZNET GEPAID: CAC002739079 HIST CORTESE Reg Id: 01-1295 CERS HWTS	N/A
SAN LEANDRO RENTAL S 14273 WASHINGTON AVE SAN LEANDRO, CA	RGA LUST	N/A
ZERMENOS CUSTOM IRON 14143 WASHINGTON AVE SAN LEANDRO, CA 94578	CERS	N/A

APOLLO MOTORHOME HOL 14273 WASHINGTON AVE SAN LEANDRO, CA 94578	CERS	N/A
APOLLO MOTORHOME HOL 14273 WASHINGTON AVE SAN LEANDRO, CA 94578	RCRA NonGen / NLR	CAC003076712
SAN LEANDRO RENTAL 14273 WASHINGTON AVE SAN LEANDRO, CA 94578	Cortese Cleanup Status: COMPLETED - CASE CLOSED HAZNET GEPAID: CAL000060805 HWTS	N/A
APOLLO MOTORHOME HOL 14273 WASHINGTON AVE SAN LEANDRO, CA 94578	FINDS Registry ID:: 110065372723 ECHO Registry ID: 110065372723	N/A
APOLLO MOTORHOME HOL 14273 WASHINGTON AVE SAN LEANDRO, CA 94578	HWTS	N/A
SAN LEANDRO RENTAL 14273 WASHINGTON AVE SAN LEANDRO, CA	RGA LUST	N/A
SAN LEANDRO RENTAL 14273 WASHINGTON AVE SAN LEANDRO, CA 94578	FINDS Registry ID:: 110065204727	N/A
UNITED RENTALS INC # 14273 WASHINGTON AVE SAN LEANDRO, CA 94578	HAZNET GEPAID: CAL000171535 HWTS	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL---------- National Priority List

Proposed NPL ---- Proposed National Priority List Sites
NPL LIENS ---- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---- Federal Facility Site Information listing
SEMS ---- Superfund Enterprise Management System

Federal RCRA CORRACTS facilities list

CORRACTS ---- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---- RCRA - Large Quantity Generators
RCRA-VSQG ---- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---- Land Use Control Information System
US ENG CONTROLS ---- Engineering Controls Sites List
US INST CONTROLS ---- Institutional Controls Sites List

Federal ERNS list

ERNS ---- Emergency Response Notification System

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

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

WMUDS/SWAT	Waste Management Unit Database
SWRCY	Recycler Database
HAULERS	Registered Waste Tire Haulers Listing
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
ODI	Open Dump Inventory
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
SCH	School Property Evaluation Program
CDL	Clandestine Drug Labs
Toxic Pits	Toxic Pits Cleanup Act Sites
US CDL	National Clandestine Laboratory Register
PFAS	PFAS Contamination Site Location Listing

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List

PCB TRANSFORMER - PCB Transformer Registration Database
RADINFO - Radiation Information Database
HIST FTTS - FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS - Incident and Accident Data
CONSENT - Superfund (CERCLA) Consent Decrees
INDIAN RESERV - Indian Reservations
FUSRAP - Formerly Utilized Sites Remedial Action Program
UMTRA - Uranium Mill Tailings Sites
LEAD SMELTERS - Lead Smelter Sites
US AIRS - Aerometric Information Retrieval System Facility Subsystem
US MINES - Mines Master Index File
ABANDONED MINES - Abandoned Mines
UXO - Unexploded Ordnance Sites
DOCKET HWC - Hazardous Waste Compliance Docket Listing
FUELS PROGRAM - EPA Fuels Program Registered Listing
CUPA Listings - CUPA Resources List
DRYCLEANERS - Cleaner Facilities
EMI - Emissions Inventory Data
ENF - Enforcement Action Listing
Financial Assurance - Financial Assurance Information Listing
ICE - ICE
HWP - EnviroStor Permitted Facilities Listing
HWT - Registered Hazardous Waste Transporter Database
MINES - Mines Site Location Listing
MWMP - Medical Waste Management Program Listing
NPDES - NPDES Permits Listing
PEST LIC - Pesticide Regulation Licenses Listing
PROC - Certified Processors Database
UIC - UIC Listing
UIC GEO - UIC GEO (GEOTRACKER)
WASTEWATER PITS - Oil Wastewater Pits Listing
WIP - Well Investigation Program Case List
MILITARY PRIV SITES - MILITARY PRIV SITES (GEOTRACKER)
PROJECT - PROJECT (GEOTRACKER)
WDR - Waste Discharge Requirements Listing
NON-CASE INFO - NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS - OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS - PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT - SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ - Well Stimulation Project (GEOTRACKER)
MINES MRDS - Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP - EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner - EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF - Recovered Government Archive Solid Waste Facilities List

EXECUTIVE SUMMARY

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site list

SEMS-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.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 04/27/2021 has revealed that there are 2 SEMS-ARCHIVE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CENTURY PLATING COMP Site ID: 0904216 EPA Id: CAD983608639	***1124 139TH AVE***	***NNE 1/8 - 1/4 (0.230 mi.)***	***J101***	***532***
STAEFA CONTROL SYSTE Site ID: 0903268 EPA Id: CAD982400228	2481 WASHINGTON AVE	NNW 1/4 - 1/2 (0.362 mi.)	113	614

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/22/2021 has revealed that there are 7

RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MIRACLE AUTO PAINTIN EPA ID:: CAD980887558	***14140 WASHINGTON AVE***	***N 0 - 1/8 (0.015 mi.)***	***B19***	***49***
LARSEN BROS LUMBER I EPA ID:: CAR000037986	***14200 WASHINGTON AVE***	***NNE 0 - 1/8 (0.018 mi.)***	***B23***	***86***
PRESTIGE AUTO BODY EPA ID:: CAD981416902	***14332 WASHINGTON AVE***	***SE 0 - 1/8 (0.073 mi.)***	***C52***	***159***
AUTO KING GEN AUTO R EPA ID:: CAD983591710	***14334 WASHINGTON AVE***	***SE 0 - 1/8 (0.078 mi.)***	***C54***	***170***
KP LLC EPA ID:: CAD982524357	***13951 WASHINGTON AVE***	***NNW 0 - 1/8 (0.115 mi.)***	***H72***	***251***
WEST COAST CINTAS CO EPA ID:: CAD981379787	777 139TH AVE	N 1/8 - 1/4 (0.140 mi.)	I78	374
GHIRARDELLI CHOCOLAT EPA ID:: CAL921784174	1111 139TH AVE	NNE 1/8 - 1/4 (0.216 mi.)	J97	508

State- and tribal - equivalent NPL

RESPONSE: Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

A review of the RESPONSE list, as provided by EDR, has revealed that there are 9 RESPONSE sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DWA PLUME Database: RESPONSE, Date of Government Version: 04/23/2021 AWP Facility Id: 01990002 Status: Active Facility Id: 01990002	***SAN LEANDRO (GROUNDW***	***NNE 1/8 - 1/4 (0.130 mi.)***	***74***	***313***
CINTAS CORPORATION Database: RESPONSE, Date of Government Version: 04/23/2021 Status: Certified / Operation & Maintenance Facility Id: 01890017	***777 139TH AVE***	***N 1/8 - 1/4 (0.140 mi.)***	***I82***	***415***
CENTURY PLATING COMP Database: RESPONSE, Date of Government Version: 04/23/2021 Status: Certified Facility Id: 01340040	***1124 139TH AVENUE***	***NNE 1/8 - 1/4 (0.230 mi.)***	***J102***	***534***
SAN FRANCISCO NIKE 3 Database: RESPONSE, Date of Government Version: 04/23/2021 Status: No Further Action Facility Id: 80000548		***WNW 1/4 - 1/2 (0.281 mi.)***	***103***	***549***
TRANSCON LINES Database: RESPONSE, Date of Government Version: 04/23/2021 Status: No Further Action Facility Id: 01470004	***601 ALADDIN AVE***	***WNW 1/4 - 1/2 (0.394 mi.)***	***P117***	***625***
U. S. CAN COMPANY SI Database: RESPONSE, Date of Government Version: 04/23/2021	***2756 ALVARADO STREET***	***WNW 1/4 - 1/2 (0.432 mi.)***	***Q120***	***650***

AWP Facility Id: 01340117
Status: No Further Action
Facility Id: 01340117

SINGER FRIDEN	***2350 AND 2450 WASHIN***	***NNW 1/4 - 1/2 (0.469 mi.)***	***S127***	***674***

Database: RESPONSE, Date of Government Version: 04/23/2021
Status: Certified / Operation & Maintenance
Facility Id: 01360094

Lower Elevation	Address	Direction / Distance	Map ID	Page
SIMMONS - SOILS	***1465 FACTOR AVENUE/1***	***WSW 1/2 - 1 (0.851 mi.)***	***V145***	***900***

Database: RESPONSE, Date of Government Version: 04/23/2021
Status: No Further Action
Facility Id: 01730011

CORRPRO COMPANIES IN	***2799 MILLER ST***	***W 1/2 - 1 (0.967 mi.)***	***W148***	***908***

Database: RESPONSE, Date of Government Version: 04/23/2021
Status: No Further Action
Facility Id: 01750029

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 04/23/2021 has revealed that there are 17 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DWA PLUME	***SAN LEANDRO (GROUNDW***	***NNE 1/8 - 1/4 (0.130 mi.)***	***74***	***313***

Facility Id: 01990002
Status: Active

CINTAS CORPORATION	***777 139TH AVE***	***N 1/8 - 1/4 (0.140 mi.)***	***I82***	***415***

Facility Id: 01890017
Status: Certified / Operation & Maintenance

CENTURY PLATING COMP	***1124 139TH AVENUE***	***NNE 1/8 - 1/4 (0.230 mi.)***	***J102***	***534***

Facility Id: 01340040
Status: Certified

SAN FRANCISCO NIKE 3		***WNW 1/4 - 1/2 (0.281 mi.)***	***103***	***549***

Facility Id: 80000548
Status: No Further Action

TRANSCON LINES	***601 ALADDIN AVE***	***WNW 1/4 - 1/2 (0.394 mi.)***	***P117***	***625***

Facility Id: 01470004

Status: No Further Action

U. S. CAN COMPANY SI	***2756 ALVARADO STREET***	***WNW 1/4 - 1/2 (0.432 mi.)***	***Q120***	***650***
Facility Id: 01340117				
Status: No Further Action				
STAEFA CO	***2481 SAN LEANDRO BLV***	***NNW 1/4 - 1/2 (0.433 mi.)***	***122***	***658***
Facility Id: 01380001				
Status: No Further Action				
SINGER FRIDEN	***2350 AND 2450 WASHIN***	***NNW 1/4 - 1/2 (0.469 mi.)***	***S127***	***674***
Facility Id: 01360094				
Status: Certified / Operation & Maintenance				
WASTE OIL RECOVERY S	***2411 WASHINGTON AVE***	***NNW 1/4 - 1/2 (0.484 mi.)***	***S131***	***847***
Facility Id: 01750031				
Status: No Further Action				
FORD STAGING SITE (9	***13900 14TH STREET***	***NNE 1/2 - 1 (0.546 mi.)***	***135***	***859***
Facility Id: 60000465				
Status: No Further Action				
H W MCKEVITT CO INC	***467 MARINA BLVD***	***NW 1/2 - 1 (0.636 mi.)***	***139***	***866***
Facility Id: 01010011				
Status: Refer: RWQCB				
SAN LEANDRO HIGH SCH	***2200 BANCROFT AVENUE***	***N 1/2 - 1 (0.688 mi.)***	***140***	***878***
Facility Id: 01490017				
Status: No Action Required				
SAN LEANDRO USD/JEFF	***14311 LARK ST***	***NE 1/2 - 1 (0.693 mi.)***	***141***	***880***
Facility Id: 01820004				
Status: Certified				
RIDING GROUP	14844-14860 EAST 14T	E 1/2 - 1 (0.708 mi.)	142	893
Facility Id: 60000625				
Status: Inactive - Needs Evaluation				
PETERSON TRACTOR COM	***955 MARINA BLVD***	***WNW 1/2 - 1 (0.838 mi.)***	***143***	***894***
Facility Id: 01350118				
Status: Refer: RWQCB				

Lower Elevation	Address	Direction / Distance	Map ID	Page
SIMMONS - SOILS	***1465 FACTOR AVENUE/1***	***WSW 1/2 - 1 (0.851 mi.)***	***V145***	***900***
Facility Id: 01730011				
Status: No Further Action				
CORRPRO COMPANIES IN	***2799 MILLER ST***	***W 1/2 - 1 (0.967 mi.)***	***W148***	***908***
Facility Id: 01750029				
Status: No Further Action				

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
ALAMEDA COUNTY INDUS	***610 ALADDIN AVENUE***	***WNW 1/4 - 1/2 (0.332 mi.)***	***N109***	***585***
Database: SWF/LF (SWIS), Date of Government Version: 05/10/2021 Facility ID: 01-AA-0291 Operational Status: Clean Closed Regulation Status: Notification				
ALAMEDA COUNTY INDUS	***610 ALADDIN AVE***	***WNW 1/4 - 1/2 (0.332 mi.)***	***N110***	***588***
Database: SWF/LF (SWIS), Date of Government Version: 05/10/2021 Facility ID: 01-AA-0290 Operational Status: Active Regulation Status: Permitted				
ACI BULKY ITEM SORTI	***601 ALLADIN AVE.***	***WNW 1/4 - 1/2 (0.394 mi.)***	***P118***	***634***
Database: SWF/LF (SWIS), Date of Government Version: 05/10/2021 Facility ID: 01-AA-0319 Operational Status: Active Regulation Status: Notification				

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 27 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LARSON BROTHERS LUMB	***14200 WASHINGTON AVE***	***NNE 0 - 1/8 (0.018 mi.)***	***B24***	***90***
Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 03/08/2021 Status: Completed - Case Closed Facility Id: 01-0881 Facility Status: Preliminary site assessment underway Global Id: T0600100814				
MORGAN BROTHERS PATI	***14305 WASHINGTON BLV***	***SE 0 - 1/8 (0.041 mi.)***	***C35***	***123***
Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 03/08/2021 Status: Completed - Case Closed Facility Id: 01-1968 Facility Status: Case Closed Global Id: T0600101818 date9: 8/5/2004				
PALACE GARAGE	***14336 WASHINGTON AVE***	***SE 0 - 1/8 (0.083 mi.)***	***C59***	***186***
Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 03/08/2021 Status: Completed - Case Closed Facility Id: 01-1133 Facility Status: Pollution Characterization Global Id: T0600101043				
RODGERS TRUCKING CO	***14327 WASHINGTON AVE***	***SE 0 - 1/8 (0.099 mi.)***	***G64***	***208***
Database: LUST REG 2, Date of Government Version: 09/30/2004 Database: LUST, Date of Government Version: 03/08/2021				

Status: Completed - Case Closed
Facility Id: 01-2477
Facility Status: Leak being confirmed
Global Id: T0600102282

STEELFORM CONTRACTIN ***14340 WASHINGTON AVE*** ***SE 0 - 1/8 (0.113 mi.)*** ***G69*** ***236***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Facility Id: 01-1424
Facility Status: Case Closed
Global Id: T0600101315
date9: 8/21/2000

CINTAS CORPORATION ***777 139TH AVE*** ***N 1/8 - 1/4 (0.140 mi.)*** ***I82*** ***415***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/08/2021
Status: Open - Verification Monitoring
Facility Id: 01-1863
Facility Status: Pollution Characterization
Global Id: T0600101726

PARKSIDE COMMONS APA ***900 143RD AVE*** ***ENE 1/8 - 1/4 (0.188 mi.)*** ***92*** ***498***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Facility Id: 01-1140
Facility Status: Case Closed
Global Id: T0600101050
date9: 11/25/1996

SERVICE PLASTERING ***1090 139TH AVE*** ***NNE 1/8 - 1/4 (0.194 mi.)*** ***J94*** ***502***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Facility Id: 01-1321
Facility Status: Case Closed
Global Id: T0600101216
date9: 4/18/1994

GHIRARDELLI CHOCOLAT ***1111 139TH AVE*** ***NNE 1/8 - 1/4 (0.216 mi.)*** ***J99*** ***515***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Facility Id: 01-0709
Facility Status: Case Closed
Global Id: T0600100653
date9: 11/9/1996

FIRE STATION 12 ***1065 143RD AVE*** ***NE 1/4 - 1/2 (0.287 mi.)*** ***L104*** ***552***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Id: 01-2579
Facility Status: Case Closed
date9: 10/16/2002

FIRE STATION 12 ***1065 143RD AVE*** ***NE 1/4 - 1/2 (0.287 mi.)*** ***L105*** ***553***
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Global Id: T0600191578

MAXWELL HOUSE, DIV O ***100 HALCYON DRIVE*** ***ESE 1/4 - 1/2 (0.301 mi.)*** ***106*** ***556***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/08/2021

Status: Completed - Case Closed
Facility Id: 01-0688
Facility Status: Case Closed
Global Id: T0600100633
date9: 3/21/1995

ED CHOUANES FORD, IN ***13889 E 14TH ST*** ***NNE 1/4 - 1/2 (0.354 mi.)*** ***O112*** ***608***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Facility Id: 01-0546
Facility Status: Case Closed
Global Id: T0600100499
date9: 12/12/1995

WILLAMETTE INDUSTRIE ***2800 ALVARADO*** ***W 1/4 - 1/2 (0.386 mi.)*** ***115*** ***616***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Facility Id: 01-2122
Facility Status: Case Closed
Global Id: T0600101948
date9: 12/16/1997

TRANSCON LINES ***601 ALADDIN AVE*** ***WNW 1/4 - 1/2 (0.394 mi.)*** ***P117*** ***625***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Facility Id: 01-1498
Facility Status: Case Closed
Global Id: T0600101383
date9: 3/22/2001

HUDSON ***400 HUDSON LN*** ***NW 1/4 - 1/2 (0.421 mi.)*** ***119*** ***637***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Facility Id: 01-0784
Facility Status: Case Closed
Global Id: T0600100721
date9: 6/20/1996

WASHINGTON SQUARE ***14400 WASHINGTON AVE*** ***SE 1/4 - 1/2 (0.453 mi.)*** ***125*** ***669***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Facility Id: 01-1649
Facility Status: Case Closed
Global Id: T0600101524
date9: 10/26/1998

CAR STORE THE ***14285 14TH ST E*** ***NE 1/4 - 1/2 (0.478 mi.)*** ***128*** ***841***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Facility Id: 01-1924
Facility Status: Case Closed
Global Id: T0600101784
date9: 5/21/1996

SIMAS BROS SERVICE S ***14180 14TH ST E*** ***NE 1/4 - 1/2 (0.489 mi.)*** ***T132*** ***854***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/08/2021

Status: Completed - Case Closed
Facility Id: 01-0860
Facility Status: Pollution Characterization
Global Id: T0600100794

Lower Elevation	Address	Direction / Distance	Map ID	Page
S&S BUILDING SUPPLY	***701 FREMONT***	***SW 0 - 1/8 (0.113 mi.)***	***70***	***241***

Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Facility Id: 01-1273
Facility Status: Case Closed
Global Id: T0600101170
date9: 1/4/1999

AMARAL SAUSAGE	***735 FREMONT AVE***	***SW 1/8 - 1/4 (0.173 mi.)***	***90***	***492***

Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Facility Id: 01-2136
Facility Status: Leak being confirmed
Global Id: T0600101962

MONTGOMERY WARD	***3000 ALVARADO***	***W 1/4 - 1/2 (0.329 mi.)***	***M107***	***580***

Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Global Id: T0600100935

MONTGOMERY WARD	***3000 ALVARADO***	***W 1/4 - 1/2 (0.329 mi.)***	***M108***	***584***

Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Id: 01-1013
Facility Status: Case Closed
date9: 5/11/1995

K MART	***250 FLORESTA***	***SSE 1/4 - 1/2 (0.436 mi.)***	***R123***	***665***

Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Id: 01-0836
Facility Status: Case Closed
date9: 8/18/1994

K MART ENTERPRISES	***250 FLORESTA BLVD***	***SSE 1/4 - 1/2 (0.436 mi.)***	***R124***	***666***

Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Global Id: T0600100770

DUNITZ & STERN	***3050 TEAGARDEN***	***W 1/4 - 1/2 (0.460 mi.)***	***126***	***672***

Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Global Id: T0600158364

BICOASTAL PROPERTIES	***2711 ALVARADO ST***	***WNW 1/4 - 1/2 (0.478 mi.)***	***Q129***	***844***

Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Facility Id: 01-0205
Facility Status: Case Closed
Global Id: T0600100191
date9: 11/27/1995

EXECUTIVE SUMMARY

CPS-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 CPS-SLIC list, as provided by EDR, has revealed that there are 8 CPS-SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
295 139TH AVENUE	***295 139TH AVENUE***	***NNW 0 - 1/8 (0.055 mi.)***	***D42***	***136***
Database: CPS-SLIC, Date of Government Version: 03/08/2021 Facility Status: Open - Site Assessment Global Id: T10000009956				
WEAVER PROPERTY	***750 139TH ST***	***NNE 1/8 - 1/4 (0.131 mi.)***	***I76***	***362***
Database: SLIC REG 2, Date of Government Version: 09/30/2004 Database: CPS-SLIC, Date of Government Version: 03/08/2021 Facility Id: 01S0033 Facility Status: Open - Inactive Global Id: SLT2O291182				
CINTAS OPERATION # 5	777 139TH AVE	N 1/8 - 1/4 (0.140 mi.)	I79	376
Database: SLIC REG 2, Date of Government Version: 09/30/2004 Facility Id: 01S0040				
CINTAS CORP #54	***777 139TH AVE***	***N 1/8 - 1/4 (0.140 mi.)***	***I80***	***377***
Database: CPS-SLIC, Date of Government Version: 03/08/2021 Facility Status: Open - Inactive Global Id: T10000013881				
PARKSIDE COMMONS APA	***900 143RD AVE***	***ENE 1/8 - 1/4 (0.188 mi.)***	***92***	***498***
Database: SLIC REG 2, Date of Government Version: 09/30/2004 Facility Id: 01S0454				
VUKOVIC DEVELOPMENT	***0 WASHINGTON AVE & H***	***SSE 1/4 - 1/2 (0.376 mi.)***	***114***	***615***
Database: CPS-SLIC, Date of Government Version: 03/08/2021 Facility Status: Completed - Case Closed Global Id: T06019760971				
SINGER FRIDEN NPDES	***2411 WASHINGTON AVE.***	***NNW 1/4 - 1/2 (0.484 mi.)***	***S130***	***846***
Database: CPS-SLIC, Date of Government Version: 03/08/2021 Facility Status: Completed - Case Closed Global Id: SL0600116443				

Lower Elevation	Address	Direction / Distance	Map ID	Page
TRW	***820 ALADDIN AVE***	***WNW 1/4 - 1/2 (0.499 mi.)***	***134***	***858***
Database: CPS-SLIC, Date of Government Version: 03/08/2021 Facility Status: Open - Inactive Global Id: SL0600185209				

Alameda County CS: 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).

A review of the Alameda County CS list, as provided by EDR, and dated 01/09/2019 has revealed that there are 11 Alameda County CS sites within approximately 0.5 miles of the target property.

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
295 139TH AVE Record Id: RO0003214 Status: Leak Confirmation	295 139TH AVE	NNW 0 - 1/8 (0.055 mi.)	D41	135
PALACE GARAGE Record Id: RO0000208 Status: Pollution Characterization	***14336 WASHINGTON AVE***	***SE 0 - 1/8 (0.083 mi.)***	***C59***	***186***
PARKSIDE COMMONS APA Record Id: RO0000748 Status: Case Closed	***900 143RD AVE***	***ENE 1/8 - 1/4 (0.188 mi.)***	***92***	***498***
GHIRARDELLI CHOCOLAT Record Id: RO0002724 Status: Case Closed	***1111 139TH AVE***	***NNE 1/8 - 1/4 (0.216 mi.)***	***J99***	***515***
MAXWELL HOUSE, DIV O Record Id: RO0000652 Status: Case Closed	***100 HALCYON DRIVE***	***ESE 1/4 - 1/2 (0.301 mi.)***	***106***	***556***
ED CHOVANES FORD Record Id: RO0000948 Status: Case Closed	***13889 E 14TH ST***	***NNE 1/4 - 1/2 (0.354 mi.)***	***O111***	***607***
VUKOVIC DEVELOPMENT Record Id: RO0002827 Status: Case Closed	***0 WASHINGTON AVE & H***	***SSE 1/4 - 1/2 (0.376 mi.)***	***114***	***615***
HUDSON Record Id: RO0000970 Status: Case Closed	***400 HUDSON LN***	***NW 1/4 - 1/2 (0.421 mi.)***	***119***	***637***
SIMAS BROS SERVICE S Record Id: RO0000507 Status: Leak Confirmation	14180 E 14TH ST	NE 1/4 - 1/2 (0.489 mi.)	T133	857

Lower Elevation	Address	Direction / Distance	Map ID	Page
S&S BUILDING SUPPLY Record Id: RO0000826 Status: Case Closed	***701 FREMONT***	***SW 0 - 1/8 (0.113 mi.)***	***70***	***241***
BICOASTAL PROPERTIES Record Id: RO0000982 Status: Case Closed	***2711 ALVARADO ST***	***WNW 1/4 - 1/2 (0.478 mi.)***	***Q129***	***844***

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RODGERS TRUCKING CO. Database: UST, Date of Government Version: 03/08/2021	14327 WASHINGTON AVE	SE 0 - 1/8 (0.099 mi.)	G63	208

Facility Id: 01-007-000633
Facility Id: 01-007-100408

Lower Elevation	Address	Direction / Distance	Map ID	Page
PUBLIC WORKS SERVICE	***14200 CHAPMAN RD.***	***SW 0 - 1/8 (0.021 mi.)***	***A32***	***110***

Database: UST, Date of Government Version: 03/08/2021
Facility Id: 01-007-100085
Facility Id: 01-007-032188

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there are 2 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAN LEANDRO-AMR	642 143RD ST	ENE 0 - 1/8 (0.112 mi.)	E65	228

Database: AST, Date of Government Version: 07/06/2016

PG&E - U SUBSTATION	13939 WASHINGTON AV	NNW 1/8 - 1/4 (0.159 mi.)	H85	446

Database: AST, Date of Government Version: 07/06/2016

State and tribal voluntary cleanup sites

VCP: 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.

A review of the VCP list, as provided by EDR, and dated 04/23/2021 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
STAEFA CO	***2481 SAN LEANDRO BLV***	***NNW 1/4 - 1/2 (0.433 mi.)***	***122***	***658***

Status: No Further Action
Facility Id: 01380001

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there are 6 HIST Cal-Sites sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DWA PLUME	*SAN LEANDRO (GROUNDW*	*NNE 1/8 - 1/4 (0.130 mi.)*	*74*	*313*
CINTAS/DEDOMINICO SI	*777 139TH AVENUE*	*N 1/8 - 1/4 (0.140 mi.)*	*I77*	*364*
CENTURY PLATING COMP	*1124 139TH AVENUE*	*NNE 1/8 - 1/4 (0.230 mi.)*	*J102*	*534*
U. S. CAN COMPANY SI	*2756 ALVARADO STREET*	*WNW 1/4 - 1/2 (0.432 mi.)*	*Q120*	*650*
SINGER FRIDEN	*2350 AND 2450 WASHIN*	*NNW 1/4 - 1/2 (0.469 mi.)*	*S127*	*674*

Lower Elevation	Address	Direction / Distance	Map ID	Page
DANA CORPORATION	*2799 MILLER STREET*	*W 1/2 - 1 (0.967 mi.)*	*W149*	*914*

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 04/19/2021 has revealed that there are 14 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
S & S AUTOMOTIVE	*14127 WASHINGTON AVE*	*NW 0 - 1/8 (0.002 mi.)*	*B18*	*43*
ISLAND AUTO	*14140 WASHINGTON AVE*	*N 0 - 1/8 (0.015 mi.)*	*B21*	*75*
ENGEL HOLDINGS INC D	*14160 WASHINGTON AVE*	*N 0 - 1/8 (0.019 mi.)*	*B27*	*97*
UNIVERSAL AUTO CENTE	*14320 WASHINGTON AVE*	*ESE 0 - 1/8 (0.047 mi.)*	*C40*	*129*
H/T AUTO REPAIR AND	*14330 WASHINGTON AVE*	*ESE 0 - 1/8 (0.063 mi.)*	*C44*	*139*
UNION AUTO REPAIR	*14078 WASHINGTON AVE*	*NNW 0 - 1/8 (0.066 mi.)*	*D46*	*148*
SAN LEANDRO COLLISIO	14332 WASHINGTON AVE	SE 0 - 1/8 (0.073 mi.)	C51	156
COLISEUM TRANSMISSIO	*14074 WASHINGTON AVE*	*N 0 - 1/8 (0.080 mi.)*	*F57*	*180*
THE GARAGE BODY SHOP	*14336 WASHINGTON AVE*	*SE 0 - 1/8 (0.083 mi.)*	*C58*	*182*
ENVIRONMENTAL SAMPLI	*640 143RD AVE*	*ENE 0 - 1/8 (0.112 mi.)*	*E67*	*231*
KP LLC	*13951 WASHINGTON AVE*	*NNW 0 - 1/8 (0.115 mi.)*	*H73*	*260*
CALIBER COLLISION CE	*760 139TH AVE*	*NNE 1/8 - 1/4 (0.169 mi.)*	*I89*	*454*
GHIRARDELLI CHOCOLAT	*1111 139TH AVE*	*NNE 1/8 - 1/4 (0.216 mi.)*	*J98*	*511*

Lower Elevation	Address	Direction / Distance	Map ID	Page
PUBLIC WORKS SERVICE	*14200 CHAPMAN RD.*	*SW 0 - 1/8 (0.021 mi.)*	*A32*	*110*

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 12 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LARSEN BROS.	*14200 WASHINGTON*	*NNE 0 - 1/8 (0.018 mi.)*	*B25*	*93*
Status: A				

Tank Status: A
Comp Number: 3505

MORGAN BROTHERS PATI	***14305 S WASHINGTON A***	***SE 0 - 1/8 (0.041 mi.)***	***C36***	***125***
Comp Number: 67012				
SUPERIOR LIFT TRUCKS	***14315 WASHINGTON AVE***	***SE 0 - 1/8 (0.070 mi.)***	***C49***	***154***
Status: A				
Tank Status: A				
Comp Number: 40112				
PACIFIC BELL CO CD P	***564 143RD***	***E 0 - 1/8 (0.078 mi.)***	***E55***	***173***
Comp Number: 16349				
RODGERS TRUCKING CO	***14327 WASHINGTON AVE***	***SE 0 - 1/8 (0.099 mi.)***	***G62***	***204***
Status: A				
Tank Status: A				
Comp Number: 633				
STEELFORM CONTRACTIN	***14340 WASHINGTON AVE***	***SE 0 - 1/8 (0.113 mi.)***	***G69***	***236***
Status: A				
Tank Status: A				
Comp Number: 9725				
CINTAS CORPORATION	***777 139TH AVE***	***N 1/8 - 1/4 (0.140 mi.)***	***I82***	***415***
Comp Number: 65257				
SERVICE PLASTERING	***1090 139TH AVE***	***NNE 1/8 - 1/4 (0.194 mi.)***	***J94***	***502***
Comp Number: 5958				
T.E. BROWN, INC.	***14361 WASHINGTON AVE***	***SE 1/8 - 1/4 (0.206 mi.)***	***K96***	***506***
Comp Number: 21920				
GHIRARDELLI CHOCOLAT	***1111 139TH AVE***	***NNE 1/8 - 1/4 (0.216 mi.)***	***J99***	***515***
Comp Number: 19778				

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
CTY OF SAN LEANDRO P	***14200 CHAPMAN RD***	***SW 0 - 1/8 (0.021 mi.)***	***A30***	***104***
Status: A				
Tank Status: A				
Comp Number: 32188				
S&S BUILDING SUPPLY	***701 FREMONT***	***SW 0 - 1/8 (0.113 mi.)***	***70***	***241***
Comp Number: 3				

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 11 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
TE BROWN INC	14301 WASHINGTON AVE	SE 0 - 1/8 (0.040 mi.)	C34	122
MORGAN BROS PATIOS	14305 WASHINGTON AVE	SE 0 - 1/8 (0.041 mi.)	C37	126
Facility Id: 00000067012				
SUPERIOR LIFT TRUCKS	14315 WASHINGTON AVE	SE 0 - 1/8 (0.070 mi.)	C48	153
Facility Id: 00000040112				
PACIFIC BELL CO CD P	***564 143RD***	***E 0 - 1/8 (0.078 mi.)***	***E55***	***173***

Facility Id: 00000016349				
STEELFORM CONTRACTIN Facility Id: 00000009725	14340 WASHINGTON AVE	SE 0 - 1/8 (0.113 mi.)	G68	235
CONTAS CORP Facility Id: 00000065257	777 139TH AVE	N 1/8 - 1/4 (0.140 mi.)	I81	414
SERVICE PLASTERING I Facility Id: 00000005958	1090 139TH AVENUE	NNE 1/8 - 1/4 (0.194 mi.)	J93	501
T.E. BROWN, INC. Facility Id: 00000021920	14361 WASHINGTON AVE	SE 1/8 - 1/4 (0.206 mi.)	K95	506
GHIRARDELLI CHOCOLAT Facility Id: 00000019778	***1111 139TH AVE***	***NNE 1/8 - 1/4 (0.216 mi.)***	***J99***	***515***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CTY OF SAN LEANDRO P	***14200 CHAPMAN RD***	***SW 0 - 1/8 (0.021 mi.)***	***A30***	***104***
PUBLIC WORKS SERVICE Facility Id: 00000032188	***14200 CHAPMAN RD.***	***SW 0 - 1/8 (0.021 mi.)***	***A32***	***110***

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 04/19/2021 has revealed that there are 2 CERS TANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RODGERS TRUCKING CO	***14327 WASHINGTON AVE***	***SE 0 - 1/8 (0.099 mi.)***	***G64***	***208***

Lower Elevation	Address	Direction / Distance	Map ID	Page
PUBLIC WORKS SERVICE	***14200 CHAPMAN RD.***	***SW 0 - 1/8 (0.021 mi.)***	***A32***	***110***

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 12 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LARSEN BROS. Facility Id: 01000997 Status: A	***14200 WASHINGTON***	***NNE 0 - 1/8 (0.018 mi.)***	***B25***	***93***
MORGAN BROTHERS PATI Facility Id: 01002419 Status: I	***14305 S WASHINGTON A***	***SE 0 - 1/8 (0.041 mi.)***	***C36***	***125***
SUPERIOR LIFT TRUCKS Facility Id: 01003006 Status: A	***14315 WASHINGTON AVE***	***SE 0 - 1/8 (0.070 mi.)***	***C49***	***154***
PACIFIC BELL CO CD P	***564 143RD***	***E 0 - 1/8 (0.078 mi.)***	***E55***	***173***

Facility Id: 01002385
Status: I

RODGERS TRUCKING CO	***14327 WASHINGTON AVE***	***SE 0 - 1/8 (0.099 mi.)***	***G62***	***204***
Facility Id: 01002975				
Status: A				
STEELFORM CONTRACTIN	***14340 WASHINGTON AVE***	***SE 0 - 1/8 (0.113 mi.)***	***G69***	***236***
Facility Id: 01001538				
Status: A				
CINTAS CORPORATION	***777 139TH AVE***	***N 1/8 - 1/4 (0.140 mi.)***	***I82***	***415***
Facility Id: 01000527				
Status: I				
SERVICE PLASTERING	***1090 139TH AVE***	***NNE 1/8 - 1/4 (0.194 mi.)***	***J94***	***502***
Facility Id: 01001433				
Status: I				
T.E. BROWN, INC.	***14361 WASHINGTON AVE***	***SE 1/8 - 1/4 (0.206 mi.)***	***K96***	***506***
Facility Id: 01002391				
Status: I				
GHIRARDELLI CHOCOLAT	***1111 139TH AVE***	***NNE 1/8 - 1/4 (0.216 mi.)***	***J99***	***515***
Facility Id: 01000831				
Status: I				

Lower Elevation	Address	Direction / Distance	Map ID	Page
CTY OF SAN LEANDRO P	***14200 CHAPMAN RD***	***SW 0 - 1/8 (0.021 mi.)***	***A30***	***104***
Facility Id: 01002999				
Status: A				
S&S BUILDING SUPPLY	***701 FREMONT***	***SW 0 - 1/8 (0.113 mi.)***	***70***	***241***
Facility Id: 01001390				
Status: I				

Local Land Records

DEED: The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes .

A review of the DEED list, as provided by EDR, and dated 03/02/2021 has revealed that there is 1 DEED site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CINTAS CORPORATION	***777 139TH AVE***	***N 1/8 - 1/4 (0.140 mi.)***	***I82***	***415***
Status: OPEN - VERIFICATION MONITORING				
Status: CERTIFIED / OPERATION & MAINTENANCE				
Envirostor ID: T0600101726				
Envirostor ID: 1890017				

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/22/2021 has revealed that there are 26 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
S & S AUTO INC EPA ID:: CAL000362610	14127 WASHINGTON AVE	NW 0 - 1/8 (0.002 mi.)	B17	40
ISLAND AUTO & BODY R EPA ID:: CAL000371233	14140 WASHINGTON AVE	N 0 - 1/8 (0.015 mi.)	B20	72
SANDEEP SINGH DBA IS EPA ID:: CAL000452157	14140 WASHINGTON AVE	N 0 - 1/8 (0.015 mi.)	B22	83
RONIN PRODUCT DEVELO EPA ID:: CAL000448704	14130 WASHINGTON AVE	N 0 - 1/8 (0.019 mi.)	B26	94
ENGEL HOLDINGS INC D EPA ID:: CAL000322171	14160 WASHINGTON AVE	N 0 - 1/8 (0.019 mi.)	B28	99
SUPERIOR GUNITE	14160 WASHINGTON AVE	N 0 - 1/8 (0.019 mi.)	B29	102
UNIVERSAL AUTO CENTE EPA ID:: CAL000219575	14320 WASHINGTON AVE	ESE 0 - 1/8 (0.047 mi.)	C39	127
H/T AUTO REPAIR EPA ID:: CAL000286422	14330 WASHINGTON AVE	ESE 0 - 1/8 (0.063 mi.)	C43	137
UNION AUTO REPAIR EPA ID:: CAL000258261	14078 WASHINGTON AVE	NNW 0 - 1/8 (0.066 mi.)	D45	146
SUPERIOR LIFT TRUCKS EPA ID:: CAL000004787	14315 WASHINGTON AVE	SE 0 - 1/8 (0.070 mi.)	C47	151
SAN LEANDRO COLLISIO EPA ID:: CAL000171873	14332 WASHINGTON AVE	SE 0 - 1/8 (0.073 mi.)	C53	167
PACIFIC BELL CO CD P EPA ID:: CAD982510729	***564 143RD***	***E 0 - 1/8 (0.078 mi.)***	***E55***	***173***
COLISEUM TRANSMISSIO EPA ID:: CAL000440024	14074 WASHINGTON AVE	N 0 - 1/8 (0.080 mi.)	F56	178
THE GARAGE BODY SHOP EPA ID:: CAL000188777	14336 WASHINGTON AVE	SE 0 - 1/8 (0.083 mi.)	C60	199
FRANK GHIGLIONE DBA EPA ID:: CAL000058405	14327 WASHINGTON AVE	SE 0 - 1/8 (0.099 mi.)	G61	202
ENVIRONMENTAL SAMPLI EPA ID:: CAC003014473	640 143RD AVE	ENE 0 - 1/8 (0.112 mi.)	E66	229
REVOLT RECYCLING LLC EPA ID:: CAR000249029	657 143RD AVE	ENE 0 - 1/8 (0.114 mi.)	71	248
PG&E SAN LEANDRO U S EPA ID:: CAC003059356	13939 WASHINGTON ST.	NNW 1/8 - 1/4 (0.159 mi.)	H83	441
PG&E	13939 WASHINGTON STR	NNW 1/8 - 1/4 (0.159 mi.)	H84	443
PACIFIC GAS AND ELEC	13939 WASHINGTON	NNW 1/8 - 1/4 (0.159 mi.)	H86	446

EPA ID:: CAC002994040				
SPECTRUM BODY AND PA EPA ID:: CAL000138448	760 139TH AVE	NNE 1/8 - 1/4 (0.169 mi.)	I87	449
CALIBER COLLISION CE EPA ID:: CAL000441267	760 139TH AVE	NNE 1/8 - 1/4 (0.169 mi.)	I88	451
COORDINATED WIRE ROP EPA ID:: CAL000376355	790 139TH AVE	NNE 1/8 - 1/4 (0.184 mi.)	J91	495
GHIRARDELLI CHOCOLAT EPA ID:: CAD009129768	***1111 139TH AVENUE***	***NNE 1/8 - 1/4 (0.216 mi.)***	***J100***	***529***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ALAMEDA COUNTY HHW P EPA ID:: CAH111001415	14200 CHAPMAN ST	SW 0 - 1/8 (0.021 mi.)	A31	107
CITY OF SAN LEANDRO EPA ID:: CAL000011495	14200 CHAPMAN RD.	SW 0 - 1/8 (0.021 mi.)	A33	119

CA BOND EXP. 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.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there are 2 CA BOND EXP. PLAN sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ONE HUNDRED THIRTY-N	750 139TH STREET	NNE 1/8 - 1/4 (0.131 mi.)	I75	362

Lower Elevation	Address	Direction / Distance	Map ID	Page
FACTOR AVENUE PLUME	1465 FACTOR AVENUE	WSW 1/2 - 1 (0.851 mi.)	V144	900

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 03/22/2021 has revealed that there are 26 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LARSON BROTHERS LUMB Cleanup Status: COMPLETED - CASE CLOSED	***14200 WASHINGTON AVE***	***NNE 0 - 1/8 (0.018 mi.)***	***B24***	***90***
MORGAN BROTHERS PATI Cleanup Status: COMPLETED - CASE CLOSED	***14305 WASHINGTON BLV***	***SE 0 - 1/8 (0.041 mi.)***	***C35***	***123***
PALACE GARAGE Cleanup Status: COMPLETED - CASE CLOSED	***14336 WASHINGTON AVE***	***SE 0 - 1/8 (0.083 mi.)***	***C59***	***186***
RODGERS TRUCKING CO Cleanup Status: COMPLETED - CASE CLOSED	***14327 WASHINGTON AVE***	***SE 0 - 1/8 (0.099 mi.)***	***G64***	***208***
STEELFORM CONTRACTIN Cleanup Status: COMPLETED - CASE CLOSED	***14340 WASHINGTON AVE***	***SE 0 - 1/8 (0.113 mi.)***	***G69***	***236***
DWA PLUME	***SAN LEANDRO (GROUNDW***	***NNE 1/8 - 1/4 (0.130 mi.)***	***74***	***313***

Envirostor Id: 1990002
Cleanup Status: ACTIVE

CINTAS CORPORATION ***777 139TH AVE*** ***N 1/8 - 1/4 (0.140 mi.)*** ***I82*** ***415***
Envirostor Id: 1890017
Cleanup Status: OPEN - VERIFICATION MONITORING
Cleanup Status: CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS

PARKSIDE COMMONS APA ***900 143RD AVE*** ***ENE 1/8 - 1/4 (0.188 mi.)*** ***92*** ***498***
Cleanup Status: COMPLETED - CASE CLOSED

SERVICE PLASTERING ***1090 139TH AVE*** ***NNE 1/8 - 1/4 (0.194 mi.)*** ***J94*** ***502***
Cleanup Status: COMPLETED - CASE CLOSED

GHIRARDELLI CHOCOLAT ***1111 139TH AVE*** ***NNE 1/8 - 1/4 (0.216 mi.)*** ***J99*** ***515***
Cleanup Status: COMPLETED - CASE CLOSED

FIRE STATION 12 ***1065 143RD AVE*** ***NE 1/4 - 1/2 (0.287 mi.)*** ***L104*** ***552***
Cleanup Status: COMPLETED - CASE CLOSED

MAXWELL HOUSE, DIV O ***100 HALCYON DRIVE*** ***ESE 1/4 - 1/2 (0.301 mi.)*** ***106*** ***556***
Cleanup Status: COMPLETED - CASE CLOSED

ED CHOUANES FORD, IN ***13889 E 14TH ST*** ***NNE 1/4 - 1/2 (0.354 mi.)*** ***O112*** ***608***
Cleanup Status: COMPLETED - CASE CLOSED

WILLAMETTE INDUSTRIE ***2800 ALVARADO*** ***W 1/4 - 1/2 (0.386 mi.)*** ***115*** ***616***
Cleanup Status: COMPLETED - CASE CLOSED

TRANSCON LINES ***601 ALADDIN AVE*** ***WNW 1/4 - 1/2 (0.394 mi.)*** ***P117*** ***625***
Cleanup Status: COMPLETED - CASE CLOSED

HUDSON ***400 HUDSON LN*** ***NW 1/4 - 1/2 (0.421 mi.)*** ***119*** ***637***
Cleanup Status: COMPLETED - CASE CLOSED

WASHINGTON SQUARE ***14400 WASHINGTON AVE*** ***SE 1/4 - 1/2 (0.453 mi.)*** ***125*** ***669***
Cleanup Status: COMPLETED - CASE CLOSED

SINGER FRIDEN ***2350 AND 2450 WASHIN*** ***NNW 1/4 - 1/2 (0.469 mi.)*** ***S127*** ***674***
Envirostor Id: 1360094
Cleanup Status: CERTIFIED / OPERATION & MAINTENANCE

CAR STORE THE ***14285 14TH ST E*** ***NE 1/4 - 1/2 (0.478 mi.)*** ***128*** ***841***
Cleanup Status: COMPLETED - CASE CLOSED

SIMAS BROS SERVICE S ***14180 14TH ST E*** ***NE 1/4 - 1/2 (0.489 mi.)*** ***T132*** ***854***
Cleanup Status: COMPLETED - CASE CLOSED

Lower Elevation	Address	Direction / Distance	Map ID	Page

S&S BUILDING SUPPLY ***701 FREMONT*** ***SW 0 - 1/8 (0.113 mi.)*** ***70*** ***241***
Cleanup Status: COMPLETED - CASE CLOSED

AMARAL SAUSAGE ***735 FREMONT AVE*** ***SW 1/8 - 1/4 (0.173 mi.)*** ***90*** ***492***
Cleanup Status: COMPLETED - CASE CLOSED

MONTGOMERY WARD ***3000 ALVARADO*** ***W 1/4 - 1/2 (0.329 mi.)*** ***M108*** ***584***
Cleanup Status: COMPLETED - CASE CLOSED

K MART ***250 FLORESTA*** ***SSE 1/4 - 1/2 (0.436 mi.)*** ***R123*** ***665***
Cleanup Status: COMPLETED - CASE CLOSED

DUNITZ & STERN ***3050 TEAGARDEN*** ***W 1/4 - 1/2 (0.460 mi.)*** ***126*** ***672***
Cleanup Status: COMPLETED - CASE CLOSED

BICOASTAL PROPERTIES ***2711 ALVARADO ST*** ***WNW 1/4 - 1/2 (0.478 mi.)*** ***Q129*** ***844***
Cleanup Status: COMPLETED - CASE CLOSED

EXECUTIVE SUMMARY

HAZNET: 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 from non-California manifests & continuation sheets are not included at the present time. 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, & disposal method. The source is the Department of Toxic Substance Control is the agency. This database begins with calendar year 1993.

A review of the HAZNET list, as provided by EDR, and dated 12/31/2019 has revealed that there is 1 HAZNET site within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MIRACLE AUTO PAINTIN GEPAID: CAX000083782	***14141 WASHINGTON BLV***	***0 - 1/8 (0.000 mi.)***	***B16***	***39***

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 24 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LARSON BROTHERS LUMB Reg Id: 01-0881	***14200 WASHINGTON AVE***	***NNE 0 - 1/8 (0.018 mi.)***	***B24***	***90***
MORGAN BROTHERS PATI Reg Id: 01-1968	***14305 WASHINGTON BLV***	***SE 0 - 1/8 (0.041 mi.)***	***C35***	***123***
PALACE GARAGE Reg Id: 01-1133	***14336 WASHINGTON AVE***	***SE 0 - 1/8 (0.083 mi.)***	***C59***	***186***
RODGERS TRUCKING CO Reg Id: 01-2477	***14327 WASHINGTON AVE***	***SE 0 - 1/8 (0.099 mi.)***	***G64***	***208***
STEELFORM CONTRACTIN Reg Id: 01-1424	***14340 WASHINGTON AVE***	***SE 0 - 1/8 (0.113 mi.)***	***G69***	***236***
CINTAS CORPORATION Reg Id: 01890017 Reg Id: 01-1863	***777 139TH AVE***	***N 1/8 - 1/4 (0.140 mi.)***	***I82***	***415***
PARKSIDE COMMONS APA Reg Id: 01-1140	***900 143RD AVE***	***ENE 1/8 - 1/4 (0.188 mi.)***	***92***	***498***
SERVICE PLASTERING Reg Id: 01-1321	***1090 139TH AVE***	***NNE 1/8 - 1/4 (0.194 mi.)***	***J94***	***502***
GHIRARDELLI CHOCOLAT Reg Id: 01-0709	***1111 139TH AVE***	***NNE 1/8 - 1/4 (0.216 mi.)***	***J99***	***515***
CENTURY PLATING COMP Reg Id: 01340040	***1124 139TH AVENUE***	***NNE 1/8 - 1/4 (0.230 mi.)***	***J102***	***534***
MAXWELL HOUSE, DIV O Reg Id: 01-0688	***100 HALCYON DRIVE***	***ESE 1/4 - 1/2 (0.301 mi.)***	***106***	***556***
ED CHOUANES FORD, IN Reg Id: 01-0546	***13889 E 14TH ST***	***NNE 1/4 - 1/2 (0.354 mi.)***	***O112***	***608***
WILLAMETTE INDUSTRIE Reg Id: 01-2122	***2800 ALVARADO***	***W 1/4 - 1/2 (0.386 mi.)***	***115***	***616***
TRANSCON LINES	***601 ALADDIN AVE***	***WNW 1/4 - 1/2 (0.394 mi.)***	***P117***	***625***

Reg Id: 01-1498				
HUDSON	***400 HUDSON LN***	***NW 1/4 - 1/2 (0.421 mi.)***	***119***	***637***
Reg Id: 01-0784 Reg Id: 01240035				
WASHINGTON SQUARE	***14400 WASHINGTON AVE***	***SE 1/4 - 1/2 (0.453 mi.)***	***125***	***669***
Reg Id: 01-1649				
SINGER FRIDEN	***2350 AND 2450 WASHIN***	***NNW 1/4 - 1/2 (0.469 mi.)***	***S127***	***674***
Reg Id: 01360094				
CAR STORE THE	***14285 14TH ST E***	***NE 1/4 - 1/2 (0.478 mi.)***	***128***	***841***
Reg Id: 01-1924				
SIMAS BROS SERVICE S	***14180 14TH ST E***	***NE 1/4 - 1/2 (0.489 mi.)***	***T132***	***854***
Reg Id: 01-0860				

Lower Elevation	Address	Direction / Distance	Map ID	Page
S&S BUILDING SUPPLY	***701 FREMONT***	***SW 0 - 1/8 (0.113 mi.)***	***70***	***241***
Reg Id: 01-1273				
AMARAL SAUSAGE	***735 FREMONT AVE***	***SW 1/8 - 1/4 (0.173 mi.)***	***90***	***492***
Reg Id: 01-2136				
MONTGOMERY WARD	***3000 ALVARADO***	***W 1/4 - 1/2 (0.329 mi.)***	***M107***	***580***
Reg Id: 01-1013				
K MART ENTERPRISES	***250 FLORESTA BLVD***	***SSE 1/4 - 1/2 (0.436 mi.)***	***R124***	***666***
Reg Id: 01-0836				
BICOASTAL PROPERTIES	***2711 ALVARADO ST***	***WNW 1/4 - 1/2 (0.478 mi.)***	***Q129***	***844***
Reg Id: 01-0205				

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 03/12/2021 has revealed that there are 9 Notify 65 sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TRANSCON LINES	601 ALADIN AVENUE	WNW 1/4 - 1/2 (0.394 mi.)	P116	625
HUDSON	***400 HUDSON LN***	***NW 1/4 - 1/2 (0.421 mi.)***	***119***	***637***
UNITED STATES CAN CO	2756 ALVARADO	WNW 1/4 - 1/2 (0.432 mi.)	Q121	657
VAN BOKKELEN & SONS	***688 - 700 MONTAGUE A***	***WNW 1/2 - 1 (0.548 mi.)***	***136***	***862***
SINGER - FRIDEN SITE	2350 WASHINGTON AVE	NNW 1/2 - 1 (0.554 mi.)	U137	865
SINGER-FRIDEN SITE	2350 WASHINGTON AVE	NNW 1/2 - 1 (0.554 mi.)	U138	865
UNOCAL #3292	***15008 E. 14TH ST.***	***E 1/2 - 1 (0.856 mi.)***	***146***	***907***

Lower Elevation	Address	Direction / Distance	Map ID	Page
USA PETROLEUM	15120 HEPERIAN BOULE	ESE 1/2 - 1 (0.901 mi.)	147	908
ROTO-ROOTER	14985 WASHINGTON AVE	SSE 1/2 - 1 (0.987 mi.)	150	916

EXECUTIVE SUMMARY

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 2 EDR Hist Auto sites within approximately 0.125 miles of the target property.

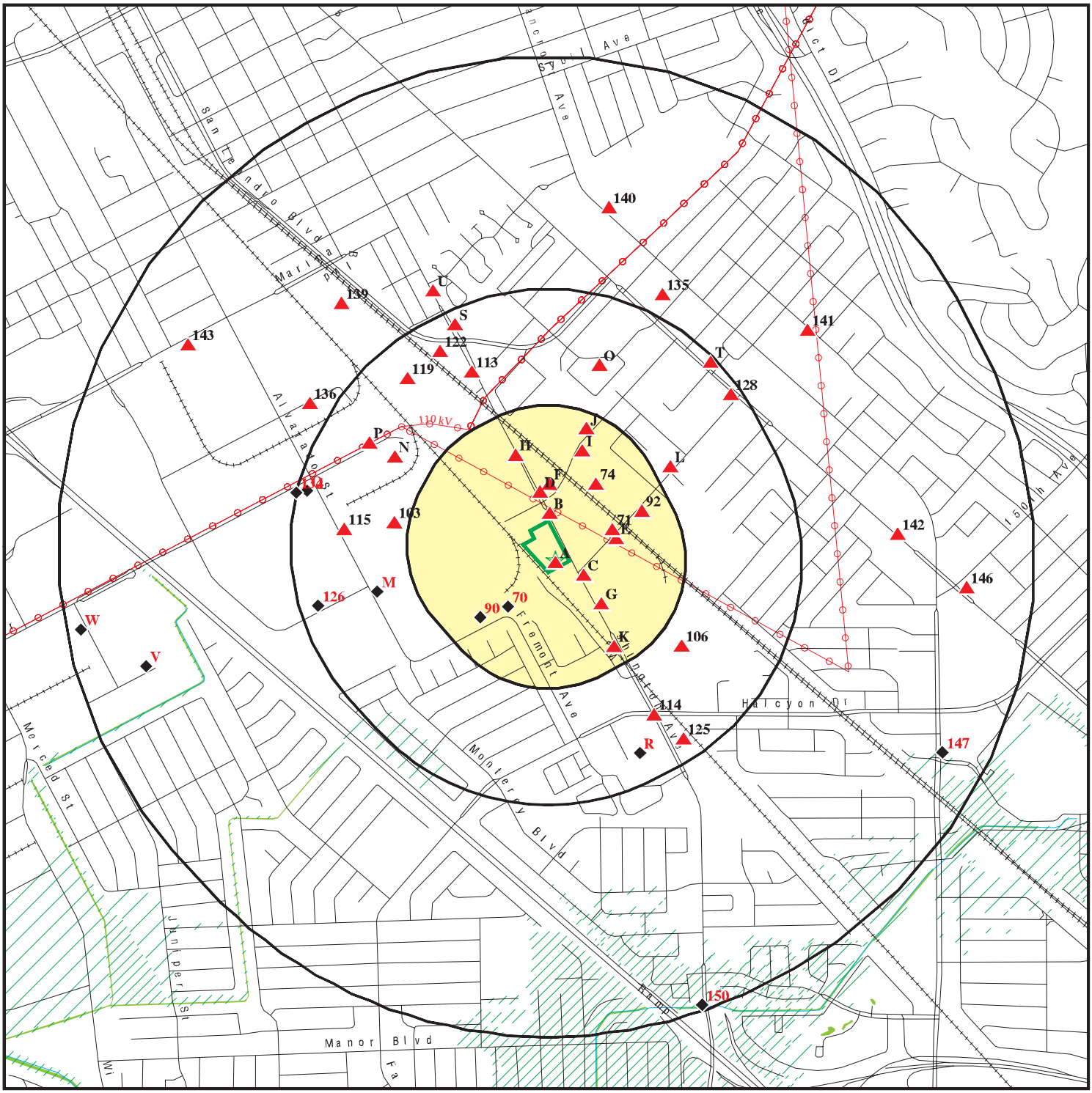
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FLETCHER S RICHFIELD	14300 WASHINGTON A	ESE 0 - 1/8 (0.042 mi.)	C38	127
BUD & RAY S BODY & P	14315 WASHINGTON A	SE 0 - 1/8 (0.070 mi.)	C50	155

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 5 records.

Site Name	Database(s)
CITY OF SAN LEANDRO DEPT ENVIRONME	HAZNET, HWTS
WASHINGTON AVE IMPROVEMENTS PROJEC	CIWQS
CITY OF SAN LEANDRO - WASHINGTON S	RCRA-SQG
CITY OF SAN LEANDRO - WASHINGTON S	FINDS, ECHO
SAN LEANDRO INVESTORS GROUP	CPS-SLIC

OVERVIEW MAP - 6617648.3S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Washington Ave. San Leandro	CLIENT:	Roux Associates
ADDRESS:	14143-14273 Washington Ave San Leandro CA 94578	CONTACT:	Caelan Murphy
		INQUIRY #:	6617648.3s
LAT/LONG:	37.706535 / 122.144982	DATE:	August 12, 2021 12:58 pm

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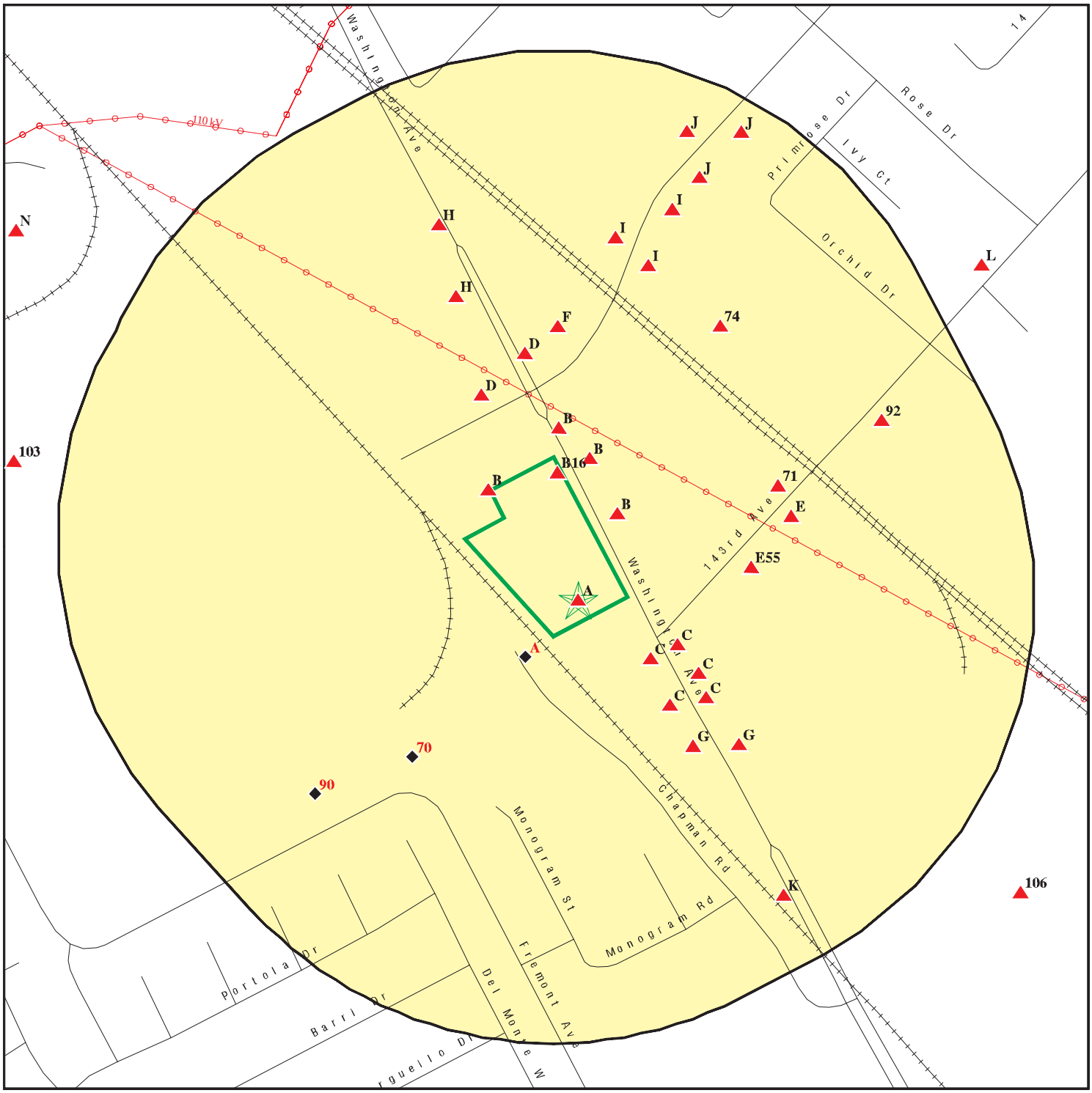
DETAIL MAP - 6617648.3S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

Areas of Concern

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Washington Ave. San Leandro	CLIENT:	Roux Associates
ADDRESS:	14143-14273 Washington Ave San Leandro CA 94578	CONTACT:	Caelan Murphy
		INQUIRY #:	6617648.3s
LAT/LONG:	37.706535 / 122.144982	DATE:	August 12, 2021 12:59 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	1	1	NR	NR	2
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		5	2	NR	NR	NR	7
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	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	3	4	2	NR	9
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	3	6	8	NR	17
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	3	NR	NR	3
State and tribal leaking storage tank lists								
LUST	0.500	2	6	5	16	NR	NR	29

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		1	4	3	NR	NR	8
Alameda County CS	0.500		3	2	6	NR	NR	11
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		2	0	NR	NR	NR	2
AST	0.250		1	1	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	1	NR	NR	1
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	3	2	1	NR	6
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		12	2	NR	NR	NR	14
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250	1	8	4	NR	NR	NR	13
HIST UST	0.250		7	4	NR	NR	NR	11
CERS TANKS	0.250		2	0	NR	NR	NR	2
CA FID UST	0.250		8	4	NR	NR	NR	12
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	1	0	NR	NR	1
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	19	7	NR	NR	NR	27
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001	3	0	NR	NR	NR	NR	3
ECHO	0.001	1	0	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	1	0	1	NR	2
Cortese	0.500	1	6	6	14	NR	NR	27
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001	4	1	NR	NR	NR	NR	5
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500	1	6	6	12	NR	NR	25
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	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	3	6	NR	9
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001	1	0	NR	NR	NR	NR	1
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001	1	0	NR	NR	NR	NR	1
CERS	0.001	3	0	NR	NR	NR	NR	3
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
HWTS	TP	7	NR	NR	NR	NR	NR	7
MINES MRDS	0.001		0	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		2	NR	NR	NR	NR	2
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001	2	0	NR	NR	NR	NR	2
- Totals --		28	89	59	71	18	0	265

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 UNITED RENTALS **HWTS** **S124549279**
Target 14273 WASHINGTON AVE **N/A**
Property SAN LEANDRO, CA 94578

Site 1 of 19 in cluster A

Actual: 39 ft.

HWTS:

Name:	UNITED RENTALS
Address:	14273 WASHINGTON AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945783326
EPA ID:	CAC001087502
Inactive Date:	10/25/2000
Create Date:	04/13/1999
Last Act Date:	10/25/2000
Mailing Name:	Not reported
Mailing Address:	14273 WASHINGTON AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN LEANDRO, CA 945783326
Owner Name:	SAM AWABDY/REG MGR
Owner Address:	14273 WASHINGTON AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	SAN LEANDRO, CA 945783326
Contact Name:	ERNIE LOPEZ/FRONT DESK
Contact Address:	14273 WASHINGTON AVE
Contact Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945783326

A2 ZERMENOS CUSTOM IRONWORKS **FINDS** **1023252975**
Target 14143 WASHINGTON AVE UNIT A **N/A**
Property SAN LEANDRO, CA 94578

Site 2 of 19 in cluster A

Actual: 39 ft.

FINDS:
Registry ID: 110065417686

Click Here:

Environmental Interest/Information System:
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A3 1X SAN LEANDRO RENTALS **HAZNET** **S123732648**
Target 14273 WASHINGTON AVENUE **HWTS** **N/A**
Property SAN LEANDRO, CA 94578

Site 3 of 19 in cluster A

Actual: 39 ft.

HAZNET:

Name:	1X SAN LEANDRO RENTALS
Address:	14273 WASHINGTON AVENUE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945780000
Contact:	VIC BALDI JR., OWNER
Telephone:	4153575900
Mailing Name:	Not reported
Mailing Address:	14273 WASHINGTON AVENUE

1X SAN LEANDRO RENTALS (Continued) **S123732648**

Year: 1991
Gepaid: CAC000544944
TSD EPA ID: CAD004771168
CA Waste Code: 512 - Other empty containers 30 gallons or more
Disposal Method: R01 - Recycler
Tons: 0.5

HWTS:
Name: 1X SAN LEANDRO RENTALS
Address: 14273 WASHINGTON AVENUE
Address 2: Not reported
City,State,Zip: SAN LEANDRO, CA 945780000
EPA ID: CAC000544944
Inactive Date: 10/25/2000
Create Date: 12/07/1990
Last Act Date: 10/25/2000
Mailing Name: Not reported
Mailing Address: 14273 WASHINGTON AVENUE
Mailing Address 2: Not reported
Mailing City,State,Zip: SAN LEANDRO, CA 945780000
Owner Name: SAN LEANDRO RENTALS
Owner Address: --
Owner Address 2: Not reported
Owner City,State,Zip: --, 99 --
Contact Name: VIC BALDI JR., OWNER
Contact Address: --
Contact Address 2: Not reported
City,State,Zip: --, 99 --

A4 **SAN LEANDRO RENTAL** **LUST** **S101293869**
Target **14273 WASHINGTON AVE** **SWEEPS UST** **N/A**
Property **SAN LEANDRO, CA 94578** **WDS**
CIWQS
Site 4 of 19 in cluster A **HWTS**

Actual: **39 ft.**

LUST REG 2:
Region: 2
Facility Id: 01-1295
Facility Status: Case Closed
Case Number: 01-1295
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 9/18/1996
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:
Name: SAN LEANDRO RENTALS/C/O VICTOR D BALDI JR
Address: 14273 WASHINGTON AVE
City: SAN LEANDRO

SAN LEANDRO RENTAL (Continued) **S101293869**

Status:	Not reported
Comp Number:	507
Number:	Not reported
Board Of Equalization:	44-001037
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	01-007-000507-000001
Tank Status:	Not reported
Capacity:	5000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	3

Name:	SAN LEANDRO RENTALS/C/O VICTOR D BALDI JR
Address:	14273 WASHINGTON AVE
City:	SAN LEANDRO
Status:	Not reported
Comp Number:	507
Number:	Not reported
Board Of Equalization:	44-001037
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	01-007-000507-000002
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	Not reported

Name:	SAN LEANDRO RENTALS/C/O VICTOR D BALDI JR
Address:	14273 WASHINGTON AVE
City:	SAN LEANDRO
Status:	Not reported
Comp Number:	507
Number:	Not reported
Board Of Equalization:	44-001037
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	01-007-000507-000003
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	Not reported

SAN LEANDRO RENTAL (Continued) **S101293869**

WDS:

Name:	UNITED RENTALS NORTHWEST INC
Address:	14273 Washington Ave
City:	SAN LEANDRO
Facility ID:	San Francisco Bay 01I018349
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:	2
Facility Telephone:	5103575900
Facility Contact:	Jeff Sanders
Agency Name:	UNITED RENTALS INC
Agency Address:	1153 Bergen Pkwy Ste M237
Agency City,St,Zip:	Evergreen 804399501
Agency Contact:	Dan Sweeney
Agency Telephone:	3036741320
Agency Type:	?
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.

CIWQS:

Name:	UNITED RENTALS NORTHWEST INC
Address:	14273 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Agency:	United Rentals North America Inc
Agency Address:	791 E 64th Ave, Denver, CO 80229

SAN LEANDRO RENTAL (Continued) **S101293869**

Place/Project Type:	Industrial - Heavy Construction Equipment Rental and Leasing
SIC/NAICS:	7353
Region:	2
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 01I018349
NPDES Number:	CAS000001
Adoption Date:	01/01/1900
Effective Date:	09/12/2003
Termination Date:	01/29/2009
Expiration/Review Date:	01/01/1900
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.70656
Longitude:	-122.14432

HWTS:

Name:	SAN LEANDRO RENTAL
Address:	14273 WASHINGTON AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945783326
EPA ID:	CAL000188243
Inactive Date:	03/10/2000
Create Date:	04/10/1998
Last Act Date:	03/10/2000
Mailing Name:	DAN SWEENEY
Mailing Address:	1153 BERGEN PARKWAY STE M237
Mailing Address 2:	Not reported
Mailing City,State,Zip:	EVERGREEN, CO 804390000
Owner Name:	UNITED RENTALS
Owner Address:	1581 CUMMINS DR #125
Owner Address 2:	Not reported
Owner City,State,Zip:	MODESTO, CA 953583326
Contact Name:	VICTOR D. BALDI JR
Contact Address:	CANCELLED DOC ON FILE N/OWNER
Contact Address 2:	3-10-00 KB
City,State,Zip:	SAN LEANDRO, CA 945783326

A5 **R.L. STEVENS COMPANY** **LUST** **S101580125**
Target **14273 WASHINGTON AVE** **HAZNET** **N/A**
Property **SAN LEANDRO, CA 94578** **HIST CORTESE**
CERS

Site 5 of 19 in cluster A **HWTS**

Actual:
39 ft.

LUST:

Name:	SAN LEANDRO RENTAL
Address:	14273 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Lead Agency:	SAN LEANDRO, CITY OF
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101191

R.L. STEVENS COMPANY (Continued) **S101580125**

Global Id:	T0600101191
Latitude:	37.706746
Longitude:	-122.144671
Status:	Completed - Case Closed
Status Date:	07/08/1997
Case Worker:	UNK
RB Case Number:	01-1295
Local Agency:	SAN LEANDRO, CITY OF
File Location:	Not reported
Local Case Number:	01-1295
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel, Gasoline
Site History:	Not reported

LUST:

Global Id:	T0600101191
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0600101191
Contact Type:	Local Agency Caseworker
Contact Name:	UNK
Organization Name:	SAN LEANDRO, CITY OF
Address:	Not reported
City:	r2 UNKNOWN
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600101191
Action Type:	RESPONSE
Date:	01/21/1994
Action:	Other Report / Document

Global Id:	T0600101191
Action Type:	RESPONSE
Date:	04/18/1997
Action:	Soil and Water Investigation Workplan

Global Id:	T0600101191
Action Type:	RESPONSE
Date:	05/21/1991
Action:	Unauthorized Release Form

Global Id:	T0600101191
Action Type:	ENFORCEMENT
Date:	04/23/1992
Action:	File review

Global Id:	T0600101191
Action Type:	ENFORCEMENT
Date:	06/17/1997

R.L. STEVENS COMPANY (Continued) **S101580125**

Action: Closure/No Further Action Letter

Global Id: T0600101191
Action Type: Other
Date: 09/14/1988
Action: Leak Discovery

Global Id: T0600101191
Action Type: Other
Date: 09/14/1988
Action: Leak Stopped

Global Id: T0600101191
Action Type: Other
Date: 09/14/1988
Action: Leak Reported

LUST:
Global Id: T0600101191
Status: Open - Case Begin Date
Status Date: 09/16/1988

Global Id: T0600101191
Status: Open - Site Assessment
Status Date: 09/18/1996

Global Id: T0600101191
Status: Completed - Case Closed
Status Date: 07/08/1997

HAZNET:
Name: R.L. STEVENS COMPANY
Address: 14273 WASHINGTON AVE
Address 2: Not reported
City,State,Zip: SAN LEANDRO, CA 94578
Contact: ROBERT STEVENS
Telephone: 5108890908
Mailing Name: Not reported
Mailing Address: PO BOX 361

Year: 2013
Gepaid: CAC002739079
TSD EPA ID: CAD980887418
CA Waste Code: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.4587

Additional Info:
Year: 2013
Gen EPA ID: CAC002739079

Shipment Date: 20130809
Creation Date: 9/26/2013 22:15:06

R.L. STEVENS COMPANY (Continued) **S101580125**

Receipt Date:	20130812
Manifest ID:	011575068JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D018
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HIST CORTESE:

edr_fname:	SAN LEANDRO RENTAL
edr_fadd1:	14273 WASHINGTON
City,State,Zip:	SAN LEANDRO, CA 94578
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1295

CERS:

Name:	SAN LEANDRO RENTAL
Address:	14273 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	242711
CERS ID:	T0600101191
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	UNK - SAN LEANDRO, CITY OF
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	r2 UNKNOWN
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA

R.L. STEVENS COMPANY (Continued) **S101580125**

Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

HWTS:
Name: R.L. STEVENS COMPANY
Address: 14273 WASHINGTON AVE
Address 2: Not reported
City,State,Zip: SAN LEANDRO, CA 94578
EPA ID: CAC002739079
Inactive Date: 11/01/2013
Create Date: 08/02/2013
Last Act Date: 11/02/2013
Mailing Name: Not reported
Mailing Address: PO BOX 361
Mailing Address 2: Not reported
Mailing City,State,Zip: SAN LEANDRO, CA 945770036
Owner Name: DAVID STEVENS
Owner Address: PO BOX 361
Owner Address 2: Not reported
Owner City,State,Zip: SAN LEANDRO, CA 945770036
Contact Name: ROBERT STEVENS
Contact Address: PO BOX 361
Contact Address 2: Not reported
City,State,Zip: SAN LEANDRO, CA 945770036

NAICS:
EPA ID: CAC002739079
Create Date: 2013-08-02 13:46:46.353
NAICS Code: 99999
NAICS Description: Not Otherwise Specified
Issued EPA ID Date: 2013-08-02 13:46:46.35700
Inactive Date: 2013-11-01 13:46:46.35300
Facility Name: R.L. STEVENS COMPANY
Facility Address: 14273 WASHINGTON AVE
Facility Address 2: Not reported
Facility City: SAN LEANDRO
Facility County: Not reported
Facility State: CA
Facility Zip: 94578

Name: APOLLO MOTORHOME HOLIDAYS, LLC
Address: 14273 WASHINGTON AVENUE
Address 2: Not reported
City,State,Zip: SAN LEANDRO, CA 94578
EPA ID: CAC003076712
Inactive Date: 10/26/2020
Create Date: 07/28/2020
Last Act Date: 07/28/2020
Mailing Name: Not reported
Mailing Address: 8559 ARTESIA BOULEVARD
Mailing Address 2: Not reported
Mailing City,State,Zip: BELLFLOWER, CA 90706
Owner Name: VICTOR BALDY
Owner Address: 14273 WASHINGTON AVENUE

R.L. STEVENS COMPANY (Continued) **S101580125**

Owner Address 2: Not reported
Owner City,State,Zip: SAN LEANDRO, CA 94578
Contact Name: ALAN BROWN
Contact Address: 14273 WASHINGTON AVENUE
Contact Address 2: Not reported
City,State,Zip: SAN LEANDRO, CA 94578

NAICS:
EPA ID: CAC003076712
Create Date: 2020-07-28 12:47:01.340
NAICS Code: 811192
NAICS Description: Car Washes
Issued EPA ID Date: 2020-07-28 12:47:01.34000
Inactive Date: 2020-10-26 12:47:01.32300
Facility Name: APOLLO MOTORHOME HOLIDAYS, LLC
Facility Address: 14273 WASHINGTON AVENUE
Facility Address 2: Not reported
Facility City: SAN LEANDRO
Facility County: Not reported
Facility State: CA
Facility Zip: 94578

A6 Target Property **SAN LEANDRO RENTAL SERVICE** **RGA LUST** **S114681672**
14273 WASHINGTON AVE **N/A**
SAN LEANDRO, CA

Site 6 of 19 in cluster A

Actual: 39 ft.

RGA LUST:
Name: SAN LEANDRO RENTAL SERVICE
Address: 14273 WASHINGTON AVE
City: SAN LEANDRO
State: SAN LEANDRO
1994 SAN LEANDRO RENTAL SERVICE 14273 WASHINGTON AVE
Name: SAN LEANDRO RENTAL SERVICE
Address: 14273 WASHINGTON AVE
City: SAN LEANDRO
State: SAN LEANDRO
1993 SAN LEANDRO RENTAL SERVICE 14273 WASHINGTON AVE

A7 Target Property **ZERMENOS CUSTOM IRONWORKS** **CERS** **S121777752**
14143 WASHINGTON AVE UNIT A **N/A**
SAN LEANDRO, CA 94578

Site 7 of 19 in cluster A

Actual: 39 ft.

CERS:
Name: ZERMENOS CUSTOM IRONWORKS
Address: 14143 WASHINGTON AVE UNIT A
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 408092
CERS ID: 10630429
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection

ZERMENOS CUSTOM IRONWORKS (Continued) **S121777752**

Eval Date:	09-18-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Alvaro Zermeno
Entity Title:	Not reported
Affiliation Address:	14143 Washington Ave Unit A
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94578
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Alvaro Zermeno
Entity Title:	Not reported
Affiliation Address:	14143 Washington Ave Unit A
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94578
Affiliation Phone:	(510) 614-2900

Affiliation Type Desc:	Parent Corporation
Entity Name:	Zermenos Custom Ironworks
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	14143 Washington Ave. Unit A
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94578
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Alvaro Zermeo
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

ZERMENOS CUSTOM IRONWORKS (Continued) **S121777752**

Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	San Leandro City
Entity Title:	Not reported
Affiliation Address:	835 East 14th Street
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	(510) 577-3401
Affiliation Type Desc:	Document Preparer
Entity Name:	Alvaro Zermeo
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Alvaro Zermeno
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 614-2900

A8 **APOLLO MOTORHOME HOLIDAYS** **CERS** **S121771035**
Target **14273 WASHINGTON AVE** **N/A**
Property **SAN LEANDRO, CA 94578**

Site 8 of 19 in cluster A

Actual:
39 ft.

CERS:

Name:	APOLLO MOTORHOME HOLIDAYS
Address:	14273 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	385307
CERS ID:	10159957
CERS Description:	Chemical Storage Facilities

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-20-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection

APOLLO MOTORHOME HOLIDAYS (Continued) **S121771035**

Eval Date:	07-23-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS

Coordinates:

Site ID:	385307
Facility Name:	Apollo Motorhome Holidays
Env Int Type Code:	HMBP
Program ID:	10159957
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	37.706700
Longitude:	-122.144440

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Corey Thompson
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Corey Thompson
Entity Title:	Not reported
Affiliation Address:	14273 Washington Ave
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94578
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Luke & Karl Trouchet
Entity Title:	Not reported
Affiliation Address:	14273 Washington Ave
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94578
Affiliation Phone:	(510) 614-8224

Affiliation Type Desc:	CUPA District
Entity Name:	San Leandro City
Entity Title:	Not reported
Affiliation Address:	835 East 14th Street
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported

APOLLO MOTORHOME HOLIDAYS (Continued) **S121771035**

Affiliation Zip:	94577
Affiliation Phone:	(510) 577-3401
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	14273 Washington Ave
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94578
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Apollo Motorhome Holidays
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Corey Thompson
Entity Title:	Branch Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Apollo Motorhome Holidays
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 614-8224
Affiliation Type Desc:	Property Owner
Entity Name:	BALDI VICTOR D & BETTY M TRS
Entity Title:	Not reported
Affiliation Address:	5395 BLACKHAWK DR
Affiliation City:	DANVILLE
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94506
Affiliation Phone:	(925) 454-0425

A9
Target
Property

APOLLO MOTORHOME HOLIDAYS, LLC
14273 WASHINGTON AVENUE
SAN LEANDRO, CA 94578

RCRA NonGen / NLR **1026471139** **CAC003076712**

Site 9 of 19 in cluster A

Actual:
39 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2020-07-28 00:00:00.0
Handler Name:	APOLLO MOTORHOME HOLIDAYS, LLC
Handler Address:	14273 WASHINGTON AVENUE
Handler City,State,Zip:	SAN LEANDRO, CA 94578
EPA ID:	CAC003076712
Contact Name:	ALAN BROWN
Contact Address:	14273 WASHINGTON AVENUE
Contact City,State,Zip:	SAN LEANDRO, CA 94578
Contact Telephone:	403-290-6912
Contact Fax:	Not reported
Contact Email:	ABROWN@CANADREAM.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	8559 ARTESIA BOULEVARD
Mailing City,State,Zip:	BELLFLOWER, CA 90706
Owner Name:	VICTOR BALDY
Owner Type:	Other
Operator Name:	ALAN BROWN
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

APOLLO MOTORHOME HOLIDAYS, LLC (Continued) **1026471139**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-08-14 15:09:41.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	VICTOR BALDY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14273 WASHINGTON AVENUE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578
Owner/Operator Telephone:	925-989-2673
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ALAN BROWN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14273 WASHINGTON AVENUE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578
Owner/Operator Telephone:	403-290-6912
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

APOLLO MOTORHOME HOLIDAYS, LLC (Continued) **1026471139**

Historic Generators:
- Receive Date: 2020-07-28 00:00:00.0
- Handler Name: APOLLO MOTORHOME HOLIDAYS, LLC
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 811192
- NAICS Description: CAR WASHES

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

A10 **SAN LEANDRO RENTAL** **Cortese** **S113045346**
Target **14273 WASHINGTON AVE** **HAZNET** **N/A**
Property **SAN LEANDRO, CA 94578** **HWTS**

Site 10 of 19 in cluster A

Actual: 39 ft.

CORTESE:
- Name: SAN LEANDRO RENTAL
- Address: 14273 WASHINGTON AVE
- City,State,Zip: SAN LEANDRO, CA 94578
- Region: CORTESE
- Envirostor Id: Not reported
- Global ID: T0600101191
- Site/Facility Type: LUST CLEANUP SITE
- Cleanup Status: COMPLETED - CASE CLOSED
- Status Date: Not reported
- Site Code: Not reported
- Latitude: Not reported
- Longitude: Not reported
- Owner: Not reported
- Enf Type: Not reported
- Swat R: Not reported
- Flag: active
- Order No: Not reported
- Waste Discharge System No: Not reported
- Effective Date: Not reported
- Region 2: Not reported
- WID Id: Not reported
- Solid Waste Id No: Not reported
- Waste Management Uit Name: Not reported
- File Name: Active Open

SAN LEANDRO RENTAL (Continued) **S113045346**

HAZNET:

Name:	SAN LEANDRO RENTAL
Address:	14273 WASHINGTON AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945780000
Contact:	VICTOR D BALDI
Telephone:	5103575900
Mailing Name:	Not reported
Mailing Address:	14273 WASHINGTON AVE
Year:	1999
Gepaid:	CAL000060805
TSD EPA ID:	CAT080033681
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	R01 - Recycler
Tons:	0.209
Year:	1998
Gepaid:	CAL000060805
TSD EPA ID:	CAD009466392
CA Waste Code:	512 - Other empty containers 30 gallons or more
Disposal Method:	R01 - Recycler
Tons:	0.275
Year:	1996
Gepaid:	CAL000060805
TSD EPA ID:	CAD980887418
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	R01 - Recycler
Tons:	0.95
Year:	1995
Gepaid:	CAL000060805
TSD EPA ID:	CAD980887418
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	R01 - Recycler
Tons:	1.178
Year:	1995
Gepaid:	CAL000060805
TSD EPA ID:	CAD980887418
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H01 - Transfer Station
Tons:	0.231
Year:	1992
Gepaid:	CAL000060805
TSD EPA ID:	CAD009466392
CA Waste Code:	512 - Other empty containers 30 gallons or more
Disposal Method:	R01 - Recycler
Tons:	3

Additional Info:

Year:	1998

SAN LEANDRO RENTAL (Continued) **S113045346**

Gen EPA ID:	CAL000060805
Shipment Date:	19980831
Creation Date:	11/2/1998 0:00:00
Receipt Date:	19980831
Manifest ID:	96734272
Trans EPA ID:	CAD982438566
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009466392
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	512 - Other empty containers 30 gallons or more
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.275
Waste Quantity:	550
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1995
Gen EPA ID:	CAL000060805
Shipment Date:	19951115
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951116
Manifest ID:	95643551
Trans EPA ID:	CAD980695761
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.231
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19950804
Creation Date:	4/3/1996 0:00:00
Receipt Date:	19950804

SAN LEANDRO RENTAL (Continued) **S113045346**

Manifest ID:	95644481
Trans EPA ID:	CAD980695761
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.178
Waste Quantity:	310
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1999
Gen EPA ID:	CAL000060805
Shipment Date:	19991215
Creation Date:	3/7/2000 0:00:00
Receipt Date:	20000106
Manifest ID:	99772634
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	CAD044003556
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1996
Gen EPA ID:	CAL000060805
Shipment Date:	19960515
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19960515

SAN LEANDRO RENTAL (Continued) **S113045346**

Manifest ID:	96237169
Trans EPA ID:	CAD982413262
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.95
Waste Quantity:	250
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	SAN LEANDRO RENTAL
Address:	14273 WASHINGTON AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945780000
EPA ID:	CAL000060805
Inactive Date:	06/30/2000
Create Date:	02/24/1992
Last Act Date:	01/22/2001
Mailing Name:	Not reported
Mailing Address:	14273 WASHINGTON AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN LEANDRO, CA 945783326
Owner Name:	SAN LEANDRO EQUIPMENT RENTAL
Owner Address:	--
Owner Address 2:	Not reported
Owner City,State,Zip:	--, 99 --
Contact Name:	VICTOR D BALDI
Contact Address:	INACTIVE PER VQ00 - BMI
Contact Address 2:	Not reported
City,State,Zip:	--, 99 --

A11 **APOLLO MOTORHOME HOLIDAYS, LLC** **FINDS** **1023248819**
Target **14273 WASHINGTON AVE** **ECHO** **N/A**
Property **SAN LEANDRO, CA 94578**

Site 11 of 19 in cluster A

Actual:
39 ft.

FINDS:
Registry ID: 110065372723

Click Here:

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,

APOLLO MOTORHOME HOLIDAYS, LLC (Continued) **1023248819**

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

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1023248819
Registry ID:	110065372723
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110065372723
Name:	APOLLO MOTORHOME HOLIDAYS, LLC
Address:	14273 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578

A12 **APOLLO MOTORHOME HOLIDAY** **HWTS** **S124890589**
Target **14273 WASHINGTON AVE** **N/A**
Property **SAN LEANDRO, CA 94578**

Site 12 of 19 in cluster A

Actual: **39 ft.**

HWTS:

Name:	APOLLO MOTORHOME HOLIDAY
Address:	14273 WASHINGTON AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 94578
EPA ID:	CAL000373875
Inactive Date:	06/30/2013
Create Date:	04/24/2012
Last Act Date:	03/26/2014
Mailing Name:	Not reported
Mailing Address:	14273 WASHINGTON AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN LEANDRO, CA 945780000
Owner Name:	LUKE TROUCHET
Owner Address:	13820 HAWTHORNE BLVD
Owner Address 2:	Not reported
Owner City,State,Zip:	HAWTHORNE, CA 902500000
Contact Name:	JOE SILVEIRA
Contact Address:	14273 WASHINGTON AVE
Contact Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945780000

NAICS:

EPA ID:	CAL000373875
Create Date:	2012-04-24 10:34:21.790
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	2012-04-24 10:34:21.71300
Inactive Date:	2013-06-30 00:00:00
Facility Name:	APOLLO MOTORHOME HOLIDAY
Facility Address:	14273 WASHINGTON AVE
Facility Address 2:	Not reported
Facility City:	SAN LEANDRO
Facility County:	Not reported
Facility State:	CA
Facility Zip:	94578

A13 **SAN LEANDRO RENTAL** **RGA LUST** **S114681674**
Target **14273 WASHINGTON AVE** **N/A**
Property **SAN LEANDRO, CA**

Site 13 of 19 in cluster A

Actual: **39 ft.**

RGA LUST:
Name: SAN LEANDRO RENTAL
Address: 14273 WASHINGTON AVE
City: SAN LEANDRO
State: SAN LEANDRO
2012 SAN LEANDRO RENTAL 14273 WASHINGTON AVE
Name: SAN LEANDRO RENTAL
Address: 14273 WASHINGTON AVE
City: SAN LEANDRO
State: SAN LEANDRO
2011 SAN LEANDRO RENTAL 14273 WASHINGTON AVE
Name: SAN LEANDRO RENTAL
Address: 14273 WASHINGTON AVE
City: SAN LEANDRO
State: SAN LEANDRO
2010 SAN LEANDRO RENTAL 14273 WASHINGTON AVE
Name: SAN LEANDRO RENTAL
Address: 14273 WASHINGTON AVE
City: SAN LEANDRO
State: SAN LEANDRO
2009 SAN LEANDRO RENTAL 14273 WASHINGTON AVE
Name: SAN LEANDRO RENTAL
Address: 14273 WASHINGTON AVE
City: SAN LEANDRO
State: SAN LEANDRO
2008 SAN LEANDRO RENTAL 14273 WASHINGTON AVE
Name: SAN LEANDRO RENTAL
Address: 14273 WASHINGTON AVE
City: SAN LEANDRO
State: SAN LEANDRO
2007 SAN LEANDRO RENTAL 14273 WASHINGTON AVE
Name: SAN LEANDRO RENTAL
Address: 14273 WASHINGTON AVE
City: SAN LEANDRO
State: SAN LEANDRO
2006 SAN LEANDRO RENTAL 14273 WASHINGTON AVE
Name: SAN LEANDRO RENTAL
Address: 14273 WASHINGTON AVE
City: SAN LEANDRO
State: SAN LEANDRO
2005 SAN LEANDRO RENTAL 14273 WASHINGTON AVE
Name: SAN LEANDRO RENTAL
Address: 14273 WASHINGTON AVE
City: SAN LEANDRO
State: SAN LEANDRO
2003 SAN LEANDRO RENTAL 14273 WASHINGTON AVE
Name: SAN LEANDRO RENTAL
Address: 14273 WASHINGTON AVE
City: SAN LEANDRO
State: SAN LEANDRO
2002 SAN LEANDRO RENTAL 14273 WASHINGTON AVE
Name: SAN LEANDRO RENTAL
Address: 14273 WASHINGTON AVE

SAN LEANDRO RENTAL (Continued) **S114681674**

City: SAN LEANDRO
State: SAN LEANDRO
2001 SAN LEANDRO RENTAL 14273 WASHINGTON AVE
Name: SAN LEANDRO RENTAL
Address: 14273 WASHINGTON AVE
City: SAN LEANDRO
State: SAN LEANDRO
2000 SAN LEANDRO RENTAL 14273 WASHINGTON AVE
Name: SAN LEANDRO RENTAL
Address: 14273 WASHINGTON AVE
City: SAN LEANDRO
State: SAN LEANDRO
1998 SAN LEANDRO RENTAL 14273 WASHINGTON AVE
Name: SAN LEANDRO RENTAL
Address: 14273 WASHINGTON AVE
City: SAN LEANDRO
State: SAN LEANDRO
1997 SAN LEANDRO RENTAL 14273 WASHINGTON AVE
Name: SAN LEANDRO RENTAL
Address: 14273 WASHINGTON AVE
City: SAN LEANDRO
State: SAN LEANDRO
1996 SAN LEANDRO RENTAL 14273 WASHINGTON AVE
Name: SAN LEANDRO RENTAL
Address: 14273 WASHINGTON AVE
City: SAN LEANDRO
State: SAN LEANDRO
1995 SAN LEANDRO RENTAL 14273 WASHINGTON AVE

A14 **SAN LEANDRO RENTAL** **FINDS** **1023233137**
Target **14273 WASHINGTON AVE** **N/A**
Property **SAN LEANDRO, CA 94578**

Site 14 of 19 in cluster A

Actual: **39 ft.**

FINDS:
Registry ID: 110065204727

Click Here:

Environmental Interest/Information System:
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A15 **UNITED RENTALS INC #053** **HAZNET** **S113090110**
Target **14273 WASHINGTON AVE** **HWTS** **N/A**
Property **SAN LEANDRO, CA 94578**

Site 15 of 19 in cluster A

Actual: **39 ft.**

HAZNET:
Name: UNITED RENTALS INC #053
Address: 14273 WASHINGTON AVE
Address 2: Not reported
City,State,Zip: SAN LEANDRO, CA 945783326
Contact: GRANT ZOUDOUSKI

UNITED RENTALS INC #053 (Continued) **S113090110**

Telephone:	3032864394
Mailing Name:	Not reported
Mailing Address:	791 E 64TH AVE
Year:	2008
Gepaid:	CAL000171535
TSD EPA ID:	TXD077603371
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.06
Year:	2008
Gepaid:	CAL000171535
TSD EPA ID:	TXD077603371
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.2
Year:	2008
Gepaid:	CAL000171535
TSD EPA ID:	TXD077603371
CA Waste Code:	-
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0875
Year:	2008
Gepaid:	CAL000171535
TSD EPA ID:	NVT330010000
CA Waste Code:	352 - Other organic solids
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.175
Year:	2005
Gepaid:	CAL000171535
TSD EPA ID:	CAL000161743
CA Waste Code:	352 - Other organic solids
Disposal Method:	H01 - Transfer Station
Tons:	1.2
Year:	2004
Gepaid:	CAL000171535
TSD EPA ID:	CAL000161743
CA Waste Code:	352 - Other organic solids
Disposal Method:	H01 - Transfer Station
Tons:	0.15
Year:	2004
Gepaid:	CAL000171535
TSD EPA ID:	CAL000161743
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	R01 - Recycler
Tons:	0.3753
Year:	2001
Gepaid:	CAL000171535

UNITED RENTALS INC #053 (Continued) **S113090110**

TSD EPA ID:	CAL000190080
CA Waste Code:	151 - Asbestos containing waste
Disposal Method:	D80 - Disposal, Land Fill
Tons:	0

Additional Info:

Year:	2008
Gen EPA ID:	CAL000171535
Shipment Date:	20081126
Creation Date:	4/9/2009 18:30:20
Receipt Date:	20081211
Manifest ID:	001510098SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081126
Creation Date:	4/16/2009 18:30:10
Receipt Date:	20081216
Manifest ID:	001510099SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

UNITED RENTALS INC #053 (Continued) **S113090110**

Additional Code 5:	Not reported
Shipment Date:	20081126
Creation Date:	4/9/2009 18:30:20
Receipt Date:	20081211
Manifest ID:	001510098SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20081126
Creation Date:	4/9/2009 18:30:20
Receipt Date:	20081211
Manifest ID:	001510098SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0875
Waste Quantity:	175
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2004
Gen EPA ID:	CAL000171535
Shipment Date:	20040720
Creation Date:	11/1/2004 12:36:11

UNITED RENTALS INC #053 (Continued) **S113090110**

Receipt Date:	20040721
Manifest ID:	23859852
Trans EPA ID:	CAR000007013
Trans Name:	CLEARWATER ENVIRONMENTAL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000161743
Trans Name:	ALVISO INDEPENDENT OIL
TSDF Alt EPA ID:	CAL000161743
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20040227
Creation Date:	8/20/2004 9:49:45
Receipt Date:	20040302
Manifest ID:	22303599
Trans EPA ID:	CAR000007013
Trans Name:	CLEARWATER ENVIRONMENTAL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000161743
Trans Name:	ALVISO INDEPENDENT OIL
TSDF Alt EPA ID:	CAL000161743
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.3753
Waste Quantity:	90
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAL000171535

Shipment Date:	20050428
Creation Date:	7/21/2005 18:32:26
Receipt Date:	20050502
Manifest ID:	24316059
Trans EPA ID:	CAR000007013
Trans Name:	CLEARWATER ENVIRONMENTAL
Trans 2 EPA ID:	Not reported

UNITED RENTALS INC #053 (Continued) **S113090110**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000161743
Trans Name:	ALVISO INDEPENDENT OIL
TSDF Alt EPA ID:	CAL000161743
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	1.2
Waste Quantity:	2400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2001
Gen EPA ID:	CAL000171535
Shipment Date:	20010713
Creation Date:	8/24/2001 0:00:00
Receipt Date:	20010713
Manifest ID:	20839105
Trans EPA ID:	CAL000091436
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000190080
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0
Waste Quantity:	0
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010711
Creation Date:	8/24/2001 0:00:00
Receipt Date:	20010712
Manifest ID:	20839109
Trans EPA ID:	CAL000091436
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000190080
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

UNITED RENTALS INC #053 (Continued) **S113090110**

Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0
Waste Quantity:	0
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010711
Creation Date:	8/24/2001 0:00:00
Receipt Date:	20010712
Manifest ID:	20839094
Trans EPA ID:	CAL000091436
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000190080
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0
Waste Quantity:	0
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	UNITED RENTALS INC #053
Address:	14273 WASHINGTON AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945783326
EPA ID:	CAL000171535
Inactive Date:	06/30/2008
Create Date:	03/01/2000
Last Act Date:	10/05/2009
Mailing Name:	DAN SWEENEY
Mailing Address:	791 E 64TH AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	DENVER, CO 802290000
Owner Name:	UNITED RENTALS NORTHWEST INC
Owner Address:	5 GREENWICH OFFICE PARK
Owner Address 2:	Not reported
Owner City,State,Zip:	GREENWICH, CT 068300000
Contact Name:	GRANT ZOUDOUSKI
Contact Address:	791 E 64TH AVE
Contact Address 2:	Not reported
City,State,Zip:	DENVER, CO 80229

UNITED RENTALS INC #053 (Continued) **S113090110**

NAICS:

EPA ID:	CAL000171535
Create Date:	2004-10-20 10:23:57.043
NAICS Code:	23499
NAICS Description:	All Other Heavy Construction
Issued EPA ID Date:	2000-03-01 00:00:00
Inactive Date:	2008-06-30 00:00:00
Facility Name:	UNITED RENTALS INC #053
Facility Address:	14273 WASHINGTON AVE
Facility Address 2:	Not reported
Facility City:	SAN LEANDRO
Facility County:	Not reported
Facility State:	CA
Facility Zip:	945783326

B16 **MIRACLE AUTO PAINTING** **HAZNET S123775290**
14141 WASHINGTON BLVD. **HWTS N/A**
< 1/8 **SAN LEANDRO, CA 94577**
1 ft.

Site 1 of 14 in cluster B

Relative: Higher
Actual: 41 ft.

HAZNET:

Name:	MIRACLE AUTO PAINTING
Address:	14141 WASHINGTON BLVD.
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945770000
Contact:	CANCELLED PER JIM HUSSEY ON 2-
Telephone:	5104838866
Mailing Name:	Not reported
Mailing Address:	14141 WASHINGTON BLVD.
Year:	1985
Gepaid:	CAX000083782
TSD EPA ID:	CAD009452657
CA Waste Code:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	1 -
Tons:	2.5228
Year:	1985
Gepaid:	CAX000083782
TSD EPA ID:	CAD
CA Waste Code:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	01 -
Tons:	2.2935
Year:	1985
Gepaid:	CAX000083782
TSD EPA ID:	CAD009452657
CA Waste Code:	0 -
Disposal Method:	-
Tons:	0
Year:	1984
Gepaid:	CAX000083782
TSD EPA ID:	CAD059494310
CA Waste Code:	214 - Unspecified solvent mixture

MIRACLE AUTO PAINTING (Continued) **S123775290**

Disposal Method: R01 - Recycler
Tons: 1.1467

Year: 1984
Gepaid: CAX000083782
TSD EPA ID: CAT080013535
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: R01 - Recycler
Tons: 7.089

Year: 1983
Gepaid: CAX000083782
TSD EPA ID: CAD059494310
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: R01 - Recycler
Tons: 2.0641

HWTS:
Name: MIRACLE AUTO PAINTING
Address: 14141 WASHINGTON BLVD.
Address 2: Not reported
City,State,Zip: SAN LEANDRO, CA 945770000
EPA ID: CAX000083782
Inactive Date: 01/01/1995
Create Date: 06/08/1984
Last Act Date: 03/20/2001
Mailing Name: Not reported
Mailing Address: 14141 WASHINGTON BLVD.
Mailing Address 2: Not reported
Mailing City,State,Zip: SAN LEANDRO, CA 945770000
Owner Name: --
Owner Address: --
Owner Address 2: Not reported
Owner City,State,Zip: --, 99 --
Contact Name: CANCELLED PER JIM HUSSEY ON 2-
Contact Address: 28-95 PER SURVEY HJ
Contact Address 2: Not reported
City,State,Zip: --, 99 --

B17 **S & S AUTO INC** **RCRA NonGen / NLR** **1024829423**
NW **14127 WASHINGTON AVE** **CAL000362610**
< 1/8 **SAN LEANDRO, CA 94578**
0.002 mi.
8 ft. **Site 2 of 14 in cluster B**

Relative:
Higher

Actual:
40 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 2011-04-08 00:00:00.0
Handler Name: S & S AUTO INC
Handler Address: 14127 WASHINGTON AVE
Handler City,State,Zip: SAN LEANDRO, CA 94578-3324
EPA ID: CAL000362610
Contact Name: JEFF SANTOS
Contact Address: 2320 W 136TH AVE
Contact City,State,Zip: SAN LEANDRO, CA 94577
Contact Telephone: 510-357-9042
Contact Fax: 510-357-9043

S & S AUTO INC (Continued) **1024829423**

Contact Email:	GEORGE.SANTOS@SBCGLOBAL.NET
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	14127 WASHINGTON AVE
Mailing City,State,Zip:	SAN LEANDRO, CA 94578-3324
Owner Name:	S & S AUTO INC CECILIA SANTOS
Owner Type:	Other
Operator Name:	JEFF SANTOS
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A

S & S AUTO INC (Continued) **1024829423**

Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 20:34:16.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	S & S AUTO INC CECILIA SANTOS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14127 WASHINGTON AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578-3324
Owner/Operator Telephone:	510-357-9042
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JEFF SANTOS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2320 W 136TH AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94577
Owner/Operator Telephone:	510-357-9042
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2011-04-08 00:00:00.0
Handler Name: S & S AUTO INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

S & S AUTO INC (Continued) **1024829423**

List of NAICS Codes and Descriptions:
NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B18 **S & S AUTOMOTIVE** **CERS HAZ WASTE** **S121789482**
NW **14127 WASHINGTON AVE** **CERS** **N/A**
< 1/8 **SAN LEANDRO, CA 94578**
0.002 mi.
8 ft. **Site 3 of 14 in cluster B**

Relative: Higher
Actual: 40 ft.

CERS HAZ WASTE:
Name: S & S AUTOMOTIVE
Address: 14127 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 63575
CERS ID: 10439989
CERS Description: Hazardous Waste Generator

CERS:
Name: S & S AUTOMOTIVE
Address: 14127 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 63575
CERS ID: 10439989
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 63575
Site Name: S & S Automotive
Violation Date: 08-15-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 10/02/2017. HW Containers not labeled
Violation Division: San Leandro City
Violation Program: HW
Violation Source: CERS

Site ID: 63575
Site Name: S & S Automotive
Violation Date: 08-15-2017
Citation: HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description: Failure to properly manage used oil and/or fuel filters in accordance with the requirements.

S & S AUTOMOTIVE (Continued) **S121789482**

Violation Notes:	Returned to compliance on 10/02/2017. Used oil filters container not labeled
Violation Division:	San Leandro City
Violation Program:	HW
Violation Source:	CERS
Site ID:	63575
Site Name:	S & S Automotive
Violation Date:	08-15-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 10/02/2017. CERS Submitted on 10/02/2017
Violation Division:	San Leandro City
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	63575
Site Name:	S & S Automotive
Violation Date:	08-15-2017
Citation:	22 CCR 23 66273.35 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.35
Violation Description:	Failure to accumulate universal waste for one year or less and to demonstrate the length of time that the universal waste has been accumulated from the date it became a waste or was received.
Violation Notes:	Returned to compliance on 10/02/2017. light bulbs stored directly on the floor- no container
Violation Division:	San Leandro City
Violation Program:	HW
Violation Source:	CERS
Site ID:	63575
Site Name:	S & S Automotive
Violation Date:	08-15-2017
Citation:	22 CCR 23 66273.34 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.34
Violation Description:	Failure to label or mark each individual or container or the designated area of universal waste as required. 1) Waste batteries shall be marked with "Universal Waste-Battery(ies)G . 2) Mercury containing equipment shall be marked with "Universal Waste -Mercury-Containing EquipmentG . 3) Lamps shall be marked with G Universal Waste-Lamp(s)G . 4)Each electronic devices or the container or the designated area shall be marked with G Universal Waste-Electronic Device(s)G . 5) Each CRTs or the container or the designated area shall be marked with "Universal Waste-CRT(s)G . 6) CRT glass or the designated area shall be marked with G Universal Waste-CRT glassG .
Violation Notes:	Returned to compliance on 10/02/2017. UW-Lamps not labeled
Violation Division:	San Leandro City
Violation Program:	HW
Violation Source:	CERS
Site ID:	63575
Site Name:	S & S Automotive
Violation Date:	08-15-2017

S & S AUTOMOTIVE (Continued) **S121789482**

Citation:	22 CCR 11 66261.7 - California Code of Regulations, Title 22, Chapter 11, Section(s) 66261.7
Violation Description:	Failure to manage empty containers greater than 5 gallons in capacity that previously held a hazardous material/waste in accordance with 22 CCR 11 66261.7 including but not limited to the following: (e)(2)By reclaiming its scrap value onsite or shipping the container or inner liner to a person who reclaims its scrap value; or (3) By reconditioning or remanufacturing the container or inner liner onsite for subsequent reuse, or shipping the container or inner liner to a person who reconditions or remanufactures the container or inner liner; or (4) By shipping the container or inner liner to a supplier or to another intermediate collection location for accumulation prior to managing the container or inner liner pursuant to subsections (e)(2) or (e)(3) of this section; or (i) By shipping the container or inner liner back to the supplier for the purpose of being refilled. (f) A container or an inner liner removed from a container larger than five gallons in capacity which is managed pursuant to subsection (e) of this section shall be marked with the date it has been emptied and shall be managed within one year of being emptied.
Violation Notes:	Returned to compliance on 10/02/2017. An empty container were not labeled
Violation Division:	San Leandro City
Violation Program:	HW
Violation Source:	CERS
Site ID:	63575
Site Name:	S & S Automotive
Violation Date:	08-15-2017
Citation:	22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description:	Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes:	Returned to compliance on 08/23/2017. EPA Reactivated on 2017-08-23
Violation Division:	San Leandro City
Violation Program:	HW
Violation Source:	CERS
Site ID:	63575
Site Name:	S & S Automotive
Violation Date:	07-21-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 07/21/2021. HMBP last submitted 10/2/17 - Annual receritification overdue.
Violation Division:	San Leandro City
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-21-2015
Violations Found:	No
Eval Type:	Routine done by local agency

S & S AUTOMOTIVE (Continued) **S121789482**

Eval Notes:	Not reported
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-21-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Leandro City
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2020
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Leandro City
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date. HMBP last submitted 10/2/17. Annual receritification overdue. Submitted during inspection.
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-15-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Hazardous Waste Violations noted; 1. EPA ID# CAL000362610 has been inactive since 2015-06-30. Instructions and 1358 form given to operator. 2. The following hazardous waste containers did not have HW labels: Three 55-gallon drums of used oil, one 55-gallon drum of used antifreeze, one 55-gallon drum of used oil filters and one 16-gallon drum of a unknown substance. 3. Two empty 55-galllon drums were not labeled as "empty". 4. Failure to properly manage used oil and/or fuel filters in accordance with the requirements 5. Universal waste (light bulbs) not properly stored and labeled as G Universal Waste-Lamp(s). 6. Failure to accumulate universal waste for one year or less and to demonstrate the length of time that the universal waste has been accumulated from the date it became a waste or was received.
Eval Division:	San Leandro City
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-15-2017

S & S AUTOMOTIVE (Continued) **S121789482**

Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	HMBP Violations Noted. 1. Last CERS submittal on 04/21/15. No CERS Submittals on 2016 and 2017 (as of 08/15/17)
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS

Enforcement Action:

Site ID:	63575
Site Name:	S & S Automotive
Site Address:	14127 WASHINGTON AVE
Site City:	SAN LEANDRO
Site Zip:	94578
Enf Action Date:	07-21-2020
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Leandro City
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	63575
Site Name:	S & S Automotive
Site Address:	14127 WASHINGTON AVE
Site City:	SAN LEANDRO
Site Zip:	94578
Enf Action Date:	08-15-2017
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Leandro City
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	63575
Site Name:	S & S Automotive
Site Address:	14127 WASHINGTON AVE
Site City:	SAN LEANDRO
Site Zip:	94578
Enf Action Date:	08-15-2017
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Leandro City
Enf Action Program:	HW
Enf Action Source:	CERS

Coordinates:

Site ID:	63575
Facility Name:	S & S Automotive
Env Int Type Code:	HWG
Program ID:	10439989
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	37.707520

S & S AUTOMOTIVE (Continued) **S121789482**

Longitude: -122.145990

Affiliation:

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 14127 Washington Avenue
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94578
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Cecelia Santos
Entity Title: President
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: San Leandro City
Entity Title: Not reported
Affiliation Address: 835 East 14th Street
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94577
Affiliation Phone: (510) 577-3401

Affiliation Type Desc: Environmental Contact
Entity Name: Ceclia Santos
Entity Title: Not reported
Affiliation Address: 14127 Washington Ave
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94578
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Cecelia Santos
Entity Title: Not reported
Affiliation Address: 14127 Washington Avenue
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94578
Affiliation Phone: (510) 357-9042

Affiliation Type Desc: Parent Corporation
Entity Name: S & S Automotive
Entity Title: Not reported
Affiliation Address: Not reported

S & S AUTOMOTIVE (Continued) **S121789482**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Cecelia Santos
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Cecelia Santos
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 357-9042
Affiliation Type Desc:	Property Owner
Entity Name:	Ceclia K Santos TR
Entity Title:	Not reported
Affiliation Address:	14127 Washington Ave
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94578
Affiliation Phone:	(510) 357-9042

B19 **MIRACLE AUTO PAINTING** **RCRA-SQG** **1000144249**
North **14140 WASHINGTON AVE** **FINDS** **CAD980887558**
< 1/8 **SAN LEANDRO, CA 94578** **ECHO**
0.015 mi. **EMI**
81 ft. **Site 4 of 14 in cluster B** **HAZNET**
CERS
Relative: **HWTS**
Higher

Actual: RCRA-SQG:
41 ft.

Date Form Received by Agency:		1996-09-01 00:00:00.0
Handler Name:	MIRACLE AUTO PAINTING	
Handler Address:		14140 WASHINGTON AVE
Handler City,State,Zip:		SAN LEANDRO, CA 94578
EPA ID:		CAD980887558
Contact Name:		Not reported
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported

MIRACLE AUTO PAINTING (Continued) **1000144249**

EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	CA
State District:	2
Mailing Address:	1065 E HILLSDALE BLVD 110
Mailing City,State,Zip:	FOSTER CITY, CA 94404
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	NOT REQUIRED
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported

MIRACLE AUTO PAINTING (Continued) **1000144249**

Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2002-06-27 03:22:58.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1996-09-01 00:00:00.0
Handler Name: MIRACLE AUTO PAINTING	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	1985-08-29 00:00:00.0
Handler Name: MIRACLE AUTO PAINTING	

MIRACLE AUTO PAINTING (Continued) **1000144249**

Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Facility Has Received Notices of Violation:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	1994-04-21 00:00:00.0
Evaluation Responsible Agency:	State Contractor/Grantee

MIRACLE AUTO PAINTING (Continued) **1000144249**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:
Registry ID: 110001165532

Click Here:

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.
Registry ID: 110058347098

Click Here:

Environmental Interest/Information System:
AIR EMISSIONS CLASSIFICATION UNKNOWN

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000144249
Registry ID:	110001165532
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110001165532
Name:	MIRACLE AUTO PAINTING
Address:	14140 WASHINGTON STREET
City,State,Zip:	SAN LEANDRO, CA 94578

EMI:

Name:	MIRACLE AUTO PAINTING
Address:	14140 WASHINGTON STREET
City,State,Zip:	SAN LEANDRO, CA 945780000
Year:	1987
County Code:	1
Air Basin:	SF
Facility ID:	2241
Air District Name:	BA
SIC Code:	7535
Air District Name:	BAY AREA AQMD

MIRACLE AUTO PAINTING (Continued) **1000144249**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6
Reactive Organic Gases Tons/Yr:	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

Name:	MIRACLE AUTO PAINTING
Address:	14140 WASHINGTON STREET
City,State,Zip:	SAN LEANDRO, CA 945780000
Year:	1990
County Code:	1
Air Basin:	SF
Facility ID:	2241
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA 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

Name:	MIRACLE AUTO PAINTING
Address:	14140 WASHINGTON STREET
City,State,Zip:	SAN LEANDRO, CA 945780000
Year:	1995
County Code:	1
Air Basin:	SF
Facility ID:	2241
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA 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:	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

Name:	MIRACLE AUTO PAINTING
Address:	14140 WASHINGTON STREET
City,State,Zip:	SAN LEANDRO, CA 945780000
Year:	1996
County Code:	1
Air Basin:	SF
Facility ID:	2241

MIRACLE AUTO PAINTING (Continued) **1000144249**

Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA 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:	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

Name:	MIRACLE AUTO PAINTING
Address:	14140 WASHINGTON STREET
City,State,Zip:	SAN LEANDRO, CA 945780000
Year:	1997
County Code:	1
Air Basin:	SF
Facility ID:	2241
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA 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:	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

Name:	MIRACLE AUTO PAINTING
Address:	14140 WASHINGTON STREET
City,State,Zip:	SAN LEANDRO, CA 945780000
Year:	1998
County Code:	1
Air Basin:	SF
Facility ID:	2241
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA 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
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

Name:	MIRACLE AUTO PAINTING
Address:	14140 WASHINGTON STREET
City,State,Zip:	SAN LEANDRO, CA 945780000
Year:	1999

MIRACLE AUTO PAINTING (Continued) **1000144249**

County Code:	1
Air Basin:	SF
Facility ID:	2241
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA 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:	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

Name:	MIRACLE AUTO PAINTING
Address:	14140 WASHINGTON STREET
City,State,Zip:	SAN LEANDRO, CA 945780000
Year:	2000
County Code:	1
Air Basin:	SF
Facility ID:	2241
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA 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:	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

Name:	MIRACLE AUTO PAINTING
Address:	14140 WASHINGTON STREET
City,State,Zip:	SAN LEANDRO, CA 945780000
Year:	2001
County Code:	1
Air Basin:	SF
Facility ID:	2241
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA 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:	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

Name:	MIRACLE AUTO PAINTING

MIRACLE AUTO PAINTING (Continued) **1000144249**

Address:	14140 WASHINGTON STREET
City,State,Zip:	SAN LEANDRO, CA 945780000
Year:	2002
County Code:	1
Air Basin:	SF
Facility ID:	2241
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA 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:	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

Name:	MIRACLE AUTO PAINTING
Address:	14140 WASHINGTON STREET
City,State,Zip:	SAN LEANDRO, CA 945780000
Year:	2003
County Code:	1
Air Basin:	SF
Facility ID:	2241
Air District Name:	BA
SIC Code:	7532
Air District Name:	BAY AREA 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:	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

HAZNET:

Name:	MIRACLE AUTO PAINTING
Address:	14140 WASHINGTON AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945780000
Contact:	SATISH CHANDRA SUPERVISOR
Telephone:	5104838866
Mailing Name:	Not reported
Mailing Address:	14140 WASHINGTON AVE

Year:	2005
Gepaid:	CAD980887558
TSD EPA ID:	CAD009452657
CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	R01 - Recycler
Tons:	0.187

Year:	2004

MIRACLE AUTO PAINTING (Continued) **1000144249**

Gepaid: CAD980887558
TSD EPA ID: CAD009452657
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: R01 - Recycler
Tons: 0.561

Year: 2003
Gepaid: CAD980887558
TSD EPA ID: CAD009452657
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: R01 - Recycler
Tons: 0.561

Year: 2002
Gepaid: CAD980887558
TSD EPA ID: CAD009452657
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: R01 - Recycler
Tons: 0.374

Year: 2002
Gepaid: CAD980887558
TSD EPA ID: CAD009452657
CA Waste Code: 342 - Organic liquids with metals (Alkaline solution (pH >= 12.5) with metals)
Disposal Method: R01 - Recycler
Tons: 0.22935

Year: 2001
Gepaid: CAD980887558
TSD EPA ID: CAD009452657
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: R01 - Recycler
Tons: 0.748

Year: 2000
Gepaid: CAD980887558
TSD EPA ID: CAD009452657
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: -
Tons: 0.187

Year: 2000
Gepaid: CAD980887558
TSD EPA ID: CAD009452657
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: R01 - Recycler
Tons: 0.187

Year: 1999
Gepaid: CAD980887558
TSD EPA ID: CAD009452657
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: R01 - Recycler
Tons: 0.561

Year: 1998

MIRACLE AUTO PAINTING (Continued) **1000144249**

Gepaid:	CAD980887558
TSD EPA ID:	CAD009452657
CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	R01 - Recycler
Tons:	0.748

Click this hyperlink while viewing on your computer to access
16 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	1994
Gen EPA ID:	CAD980887558
Shipment Date:	19940610
Creation Date:	3/26/1996 0:00:00
Receipt Date:	19940610
Manifest ID:	93524736
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.1815
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940610
Creation Date:	3/26/1996 0:00:00
Receipt Date:	19940610
Manifest ID:	93524736
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	512 - Other empty containers 30 gallons or more
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.07
Waste Quantity:	140
Quantity Unit:	P
Additional Code 1:	Not reported

MIRACLE AUTO PAINTING (Continued) **1000144249**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940506
Creation Date:	3/25/1996 0:00:00
Receipt Date:	19940506
Manifest ID:	92673557
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.198
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2003
Gen EPA ID:	CAD980887558
Shipment Date:	20030909
Creation Date:	8/2/2004 9:36:58
Receipt Date:	20030909
Manifest ID:	22420409
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

MIRACLE AUTO PAINTING (Continued) **1000144249**

Shipment Date:	20030523
Creation Date:	9/2/2003 18:31:45
Receipt Date:	20030523
Manifest ID:	22426849
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.374
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1997
Gen EPA ID:	CAD980887558

Shipment Date:	19970715
Creation Date:	12/4/1997 0:00:00
Receipt Date:	19970715
Manifest ID:	96810561
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19970211
Creation Date:	6/26/1997 0:00:00
Receipt Date:	19970211
Manifest ID:	96705187
Trans EPA ID:	CAD009452657

MIRACLE AUTO PAINTING (Continued) **1000144249**

Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2002
Gen EPA ID:	CAD980887558
Shipment Date:	20021115
Creation Date:	2/13/2003 18:31:35
Receipt Date:	20021115
Manifest ID:	22234050
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.374
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020507
Creation Date:	7/16/2002 18:30:48
Receipt Date:	20020507
Manifest ID:	21546302
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported

MIRACLE AUTO PAINTING (Continued) **1000144249**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	342 - Organic liquids with metals (see 121
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2001
Gen EPA ID:	CAD980887558
Shipment Date:	20011130
Creation Date:	1/16/2002 0:00:00
Receipt Date:	20011130
Manifest ID:	21685403
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.374
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010112
Creation Date:	3/22/2001 0:00:00
Receipt Date:	20010115
Manifest ID:	20876288
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler

MIRACLE AUTO PAINTING (Continued) **1000144249**

Quantity Tons:	0.374
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1999
Gen EPA ID:	CAD980887558
Shipment Date:	19991123
Creation Date:	1/11/2000 0:00:00
Receipt Date:	19991123
Manifest ID:	99824118
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990907
Creation Date:	11/18/1999 0:00:00
Receipt Date:	19990907
Manifest ID:	99585865
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported

MIRACLE AUTO PAINTING (Continued) **1000144249**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990330
Creation Date:	5/17/1999 0:00:00
Receipt Date:	19990331
Manifest ID:	99290656
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1993
Gen EPA ID:	CAD980887558
Shipment Date:	19930622
Creation Date:	9/8/1995 0:00:00
Receipt Date:	19930622
Manifest ID:	92421916
Trans EPA ID:	CAT080031248
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	461 - Paint sludge
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

MIRACLE AUTO PAINTING (Continued) **1000144249**

Additional Info:

Year:	1996
Gen EPA ID:	CAD980887558
Shipment Date:	19960723
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19960723
Manifest ID:	95785898
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.198
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1998
Gen EPA ID:	CAD980887558
Shipment Date:	19981230
Creation Date:	2/8/1999 0:00:00
Receipt Date:	19981230
Manifest ID:	98834116
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

MIRACLE AUTO PAINTING (Continued) **1000144249**

Shipment Date:	19980929
Creation Date:	11/19/1998 0:00:00
Receipt Date:	19980929
Manifest ID:	98571722
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19980519
Creation Date:	7/15/1998 0:00:00
Receipt Date:	19980519
Manifest ID:	98345003
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19980113
Creation Date:	3/31/1998 0:00:00
Receipt Date:	19980113
Manifest ID:	97304032
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657

MIRACLE AUTO PAINTING (Continued) **1000144249**

Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2000
Gen EPA ID:	CAD980887558
Shipment Date:	20001017
Creation Date:	12/13/2000 0:00:00
Receipt Date:	20001018
Manifest ID:	20311991
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000523
Creation Date:	7/12/2000 0:00:00
Receipt Date:	20000525
Manifest ID:	20067273
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001

MIRACLE AUTO PAINTING (Continued) **1000144249**

Meth Code:	- Not reported
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAD980887558
Shipment Date:	20050204
Creation Date:	3/2/2007 18:30:13
Receipt Date:	20050204
Manifest ID:	24104851
Trans EPA ID:	CAD009452657
Trans Name:	ROMIC ENVIRONMENTAL TECH
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	ROMIC ENVIRONMENTAL TECH
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1995
Gen EPA ID:	CAD980887558
Shipment Date:	19951020
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951020
Manifest ID:	95841394
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	D001

MIRACLE AUTO PAINTING (Continued) **1000144249**

Meth Code:	R01 - Recycler
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19950310
Creation Date:	3/29/1996 0:00:00
Receipt Date:	19950312
Manifest ID:	93574258
Trans EPA ID:	CAD009452657
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.198
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2004
Gen EPA ID:	CAD980887558
Shipment Date:	20041112
Creation Date:	1/28/2005 18:31:06
Receipt Date:	20041112
Manifest ID:	24106077
Trans EPA ID:	CAD009452657
Trans Name:	ROMIC ENVIRONMENTAL TECH
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	ROMIC ENVIRONMENTAL TECH
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported

MIRACLE AUTO PAINTING (Continued) **1000144249**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040514
Creation Date:	10/15/2004 10:46:40
Receipt Date:	20040514
Manifest ID:	23436851
Trans EPA ID:	CAD009452657
Trans Name:	ROMIC ENVIRONMENTAL TECH
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	ROMIC ENVIRONMENTAL TECH
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040102
Creation Date:	8/12/2004 8:09:46
Receipt Date:	20040102
Manifest ID:	23329085
Trans EPA ID:	CAD009452657
Trans Name:	ROMIC ENVIRONMENTAL TECH
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	ROMIC ENVIRONMENTAL TECH
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	MIRACLE AUTO PAINTING
Address:	14140 WASHINGTON STREET
City,State,Zip:	SAN LEANDRO, CA 94578-3325

MIRACLE AUTO PAINTING (Continued) **1000144249**

Site ID: 480882
CERS ID: 110001165532
CERS Description: US EPA Air Emission Inventory System (EIS)

HWTS:
Name: MIRACLE AUTO PAINTING
Address: 14140 WASHINGTON AVE
Address 2: Not reported
City,State,Zip: SAN LEANDRO, CA 945780000
EPA ID: CAD980887558
Inactive Date: 06/30/2005
Create Date: 04/10/1987
Last Act Date: 04/11/2006
Mailing Name: Not reported
Mailing Address: 14140 WASHINGTON AVE
Mailing Address 2: Not reported
Mailing City,State,Zip: SAN LEANDRO, CA 945783325
Owner Name: SATISH CHANDA
Owner Address: 14140 WASHINGTON AVE
Owner Address 2: Not reported
Owner City,State,Zip: SAN LEANDRO, CA 945783325
Contact Name: SATISH CHANDRA SUPERVISOR
Contact Address: 14140 WASHINGTON AVE
Contact Address 2: Not reported
City,State,Zip: SAN LEANDRO, CA 945783325

NAICS:
EPA ID: CAD980887558
Create Date: 2004-10-20 10:23:57.043
NAICS Code: 811121
NAICS Description: Automotive Body, Paint, and Interior Repair and Maintenance
Issued EPA ID Date: 1987-04-10 00:00:00
Inactive Date: 2005-06-30 10:01:00
Facility Name: MIRACLE AUTO PAINTING
Facility Address: 14140 WASHINGTON AVE
Facility Address 2: Not reported
Facility City: SAN LEANDRO
Facility County: Not reported
Facility State: CA
Facility Zip: 945780000

B20 **ISLAND AUTO & BODY REPAIR INC** **RCRA NonGen / NLR** **1024832770**
North **14140 WASHINGTON AVE** **CAL000371233**
< 1/8 **SAN LEANDRO, CA 94578**
0.015 mi.
81 ft. **Site 5 of 14 in cluster B**

Relative:
Higher

Actual:
41 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 2012-01-31 00:00:00.0
Handler Name: ISLAND AUTO & BODY REPAIR INC
Handler Address: 14140 WASHINGTON AVE
Handler City,State,Zip: SAN LEANDRO, CA 94578
EPA ID: CAL000371233
Contact Name: PRAVINESH CHAND
Contact Address: 14140 WASHINGTON AVE
Contact City,State,Zip: SAN LEANDRO, CA 94578
Contact Telephone: 510-567-7286

ISLAND AUTO & BODY REPAIR INC (Continued) **1024832770**

Contact Fax:	510-351-1112
Contact Email:	ANSU.ISLANDAUTOREPAIR@YAHOO.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	14140 WASHINGTON AVE
Mailing City,State,Zip:	SAN LEANDRO, CA 94578-0000
Owner Name:	ISLAND AUTO & BODY REPAIR INC
Owner Type:	Other
Operator Name:	PRAVINESH CHAND
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A

ISLAND AUTO & BODY REPAIR INC (Continued) **1024832770**

Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-06 17:00:17.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ISLAND AUTO & BODY REPAIR INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14140 WASHINGTON AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578
Owner/Operator Telephone:	650-784-6654
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	PRAVINESH CHAND
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14140 WASHINGTON AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578
Owner/Operator Telephone:	510-567-7286
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2012-01-31 00:00:00.0
Handler Name:	ISLAND AUTO & BODY REPAIR INC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

ISLAND AUTO & BODY REPAIR INC (Continued) **1024832770**

List of NAICS Codes and Descriptions:
NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B21 **ISLAND AUTO** **CERS HAZ WASTE** **S121771179**
North **14140 WASHINGTON AVE** **CERS** **N/A**
< 1/8 **SAN LEANDRO, CA 94578**
0.015 mi.
81 ft. **Site 6 of 14 in cluster B**

Relative:
Higher

Actual:
41 ft.

CERS HAZ WASTE:
Name: ISLAND AUTO
Address: 14140 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 38629
CERS ID: 10154457
CERS Description: Hazardous Waste Generator

CERS:
Name: ISLAND AUTO
Address: 14140 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 38629
CERS ID: 10154457
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 38629
Site Name: Island Auto
Violation Date: 04-18-2018
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 05/23/2018. Properly label used oil, antifreeze, filters
Violation Division: San Leandro City
Violation Program: HW
Violation Source: CERS

Site ID: 38629
Site Name: Island Auto
Violation Date: 04-17-2014
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with

ISLAND AUTO (Continued) **S121771179**

	the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 06/24/2014. Used antifreeze and used paint/solvent cans were not labeled with hazwaste labels. Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date. 6/24/14: Waste hauled 6/6/14 by RCA, 165G used oil and 55G used antifreeze. Provided HW labels for used oil, antifreeze, drained filters and waste paint/solvent during site visit on 6/27/14.
Violation Division:	San Leandro City
Violation Program:	HW
Violation Source:	CERS
Site ID:	38629
Site Name:	Island Auto
Violation Date:	04-17-2014
Citation:	22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Description:	Failure to dispose of hazardous waste within 180 days (or 270 if waste is transported over 200 miles) for the generator who generates less than 1000 kilogram per month, but more than 100 kilograms per month.
Violation Notes:	Returned to compliance on 06/24/2014. Facility has not had disposed of its paint and solvent waste from the autobody shop since it began operation in August 2011. Failure to dispose of hazardous waste within 180 days (or 270 if waste is transported over 200 miles) for the generator who generates less than 1000 kilogram per month, but more than 100 kilograms per month. 6/24/14: Waste consolidated in 55DM scheduled for disposal 6/26/14. Confirmed disposal during site visit on 6/27/14, manifest no. 007687113, 6/26/14.
Violation Division:	San Leandro City
Violation Program:	HW
Violation Source:	CERS
Site ID:	38629
Site Name:	Island Auto
Violation Date:	04-13-2016
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 04/29/2016. used oil, antifreeze, oil filter drums unlabeled.
Violation Division:	San Leandro City
Violation Program:	HW
Violation Source:	CERS
Site ID:	38629
Site Name:	Island Auto
Violation Date:	04-18-2018
Citation:	22 CCR 11 66261.7 - California Code of Regulations, Title 22, Chapter 11, Section(s) 66261.7
Violation Description:	Failure to manage empty containers greater than 5 gallons in capacity

ISLAND AUTO (Continued) **S121771179**

that previously held a hazardous material/waste in accordance with 22 CCR 11 66261.7 including but not limited to the following: (e)(2)By reclaiming its scrap value onsite or shipping the container or inner liner to a person who reclaims its scrap value; or (3) By reconditioning or re manufacturing the container or inner liner onsite for subsequent reuse, or shipping the container or inner liner to a person who reconditions or re-manufactures the container or inner liner; or (4) By shipping the container or inner liner to a supplier or to another intermediate collection location for accumulation prior to managing the container or inner liner pursuant to subsections (e)(2) or (e)(3) of 22 CCR 11 66261.7; or (i) By shipping the container or inner liner back to the supplier for the purpose of being refilled. (f) A container or an inner liner removed from a container larger than five gallons in capacity which is managed pursuant to subsection (e) of 22 CCR 11 66261.7 shall be marked with the date it has been emptied and shall be managed within one year of being emptied.

Violation Notes: Returned to compliance on 05/23/2018. Properly manage empty 55DMs
Violation Division: San Leandro City
Violation Program: HW
Violation Source: CERS

Site ID: 38629
Site Name: Island Auto
Violation Date: 04-13-2016
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes: Returned to compliance on 04/13/2016. Last HMBP submitted 6/27/14. HMBP recertified during inspection.
Violation Division: San Leandro City
Violation Program: HMRRP
Violation Source: CERS

Site ID: 38629
Site Name: Island Auto
Violation Date: 04-18-2018
Citation: 40 CFR 1 265.171 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.171
Violation Description: Failure to accumulate hazardous waste in a container that is in good condition.
Violation Notes: Returned to compliance on 05/23/2018. Waste containers in poor condition
Violation Division: San Leandro City
Violation Program: HW
Violation Source: CERS

Site ID: 38629
Site Name: Island Auto
Violation Date: 04-18-2018
Citation: 22 CCR 12 66262.11 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.11
Violation Description: Failure to determine if wastes generated are hazardous waste by using generator knowledge or applying testing method.
Violation Notes: Returned to compliance on 05/23/2018. Make hazwaste determination
Violation Division: San Leandro City

ISLAND AUTO (Continued) **S121771179**

Violation Program: HW
Violation Source: CERS

Site ID: 38629
Site Name: Island Auto
Violation Date: 04-17-2014
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 06/24/2014. Failed to complete electronic reporting of HMBP to CERS by HSC deadline: Pursuant to section 25404(e)(4) of the California Health and Safety Code, all businesses regulated under the Unified Program are required to electronically submit Unified Program information into the statewide information management system California Environmental Reporting System (CERS) beginning January 1, 2013.
Violation Division: San Leandro City
Violation Program: HMRRP
Violation Source: CERS

Site ID: 38629
Site Name: Island Auto
Violation Date: 04-17-2014
Citation: 40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description: Failure to properly close hazardous waste containers when not in active use.
Violation Notes: Returned to compliance on 06/24/2014. 5 gallon cans of used solvent from the autobody shop were left outdoors next to the hazwaste shed, open and not labeled as hazwaste. Failure to properly close hazardous waste containers when not in active use. 6/24/14: 5 gallon cans decanted into 55DM for disposal and cans disposed at Davis Street Transfer Station (receipt provided). Used solvent scheduled for disposal 6/26/14
Violation Division: San Leandro City
Violation Program: HW
Violation Source: CERS

Site ID: 38629
Site Name: Island Auto
Violation Date: 04-18-2018
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 04/30/2018. Reactivate EPA ID number
Violation Division: San Leandro City
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-13-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported

ISLAND AUTO (Continued) **S121771179**

Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-13-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Leandro City
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-17-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Leandro City
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-17-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Failed to complete electronic reporting of HMBP to CERS by HSC deadline: Pursuant to section 25404(e)(4) of the California Health and Safety Code, all businesses regulated under the Unified Program are required to electronically submit Unified Program information into the statewide information management system California Environmental Reporting System (CERS) beginning January 1, 2013. Cers submittal 6/24/14
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-18-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-18-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	1) Reactivate EPA ID #CAL000371233 (1358 sent to DTSC 4/9/18). 2) Make a hazardous waste determination for liquid in the 55G drums stored near the outdoor waste enclosure and the 5G containers near gun cleaner. Dispose of hazwaste immediately and provide disposal documents w/in 30 days. 3) Properly label used oil, antifreeze, used oil filters: The hazwaste label affixed to the 180 gallon used oil tank did not have accumulation start date. Two hazwaste labels affixed

ISLAND AUTO (Continued) **S121771179**

to the wall of the enclosure had accumulation and disposal dates but no identifying information. Used oil filter drum requires label that reads "drained used oil filters" and the accumulation start date. 4) Label empty 55DMs as "empty" and manage within one year. 5) Unlabeled 5G containers in parking lot identified as waste paint/thinner; some metal containers deteriorated. Dispose of hazwaste immediately and provide disposal document w/in 30 days.

Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-14-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 38629
Site Name: Island Auto
Site Address: 14140 WASHINGTON AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 04-13-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 38629
Site Name: Island Auto
Site Address: 14140 WASHINGTON AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 04-13-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 38629
Site Name: Island Auto
Site Address: 14140 WASHINGTON AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 04-17-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City

ISLAND AUTO (Continued) **S121771179**

Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 38629
Site Name: Island Auto
Site Address: 14140 WASHINGTON AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 04-17-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 38629
Site Name: Island Auto
Site Address: 14140 WASHINGTON AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 04-18-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 38629
Facility Name: Island Auto
Env Int Type Code: HWG
Program ID: 10154457
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.707670
Longitude: -122.144960

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Pravinesh Chand
Entity Title: Owner and Operator
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Pravinesh
Entity Title: Not reported
Affiliation Address: 14140 Washington Ave
Affiliation City: San Leandro
Affiliation State: CA

ISLAND AUTO (Continued) **S121771179**

Affiliation Country:	United States
Affiliation Zip:	94578
Affiliation Phone:	(510) 567-7286
Affiliation Type Desc:	Parent Corporation
Entity Name:	Island Auto
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	San Leandro City
Entity Title:	Not reported
Affiliation Address:	835 East 14th Street
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	(510) 577-3401
Affiliation Type Desc:	Document Preparer
Entity Name:	Ansu Chand
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	pravi chand
Entity Title:	Not reported
Affiliation Address:	14140 washington avenue
Affiliation City:	san leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94578
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Island Auto
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 567-7286
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported

ISLAND AUTO (Continued) **S121771179**

Affiliation Address:	14140 Washington Avenue
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94578
Affiliation Phone:	Not reported

B22 **SANDEEP SINGH DBA ISLAND AUTO & BODY REPAIR** **RCRA NonGen / NLR** **1026055971**
North **14140 WASHINGTON AVE** **CAL000452157**
< 1/8 **SAN LEANDRO, CA 94578**
0.015 mi.
81 ft. **Site 7 of 14 in cluster B**

Relative: **Higher**
Actual: **41 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2020-04-17 00:00:00.0
Handler Name:	SANDEEP SINGH DBA ISLAND AUTO & BODY REPAIR
Handler Address:	14140 WASHINGTON AVE
Handler City,State,Zip:	SAN LEANDRO, CA 94578
EPA ID:	CAL000452157
Contact Name:	SANDEEP SINGH
Contact Address:	14140 WASHINGTON AVE
Contact City,State,Zip:	SAN LEANDRO, CA 94578
Contact Telephone:	510-567-7286
Contact Fax:	510-351-1112
Contact Email:	ANSU.ISLANDAUTOREPAIR@YAHOO.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	14140 WASHINGTON AVE
Mailing City,State,Zip:	SAN LEANDRO, CA 94578
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	SANDEEP SINGH
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported

SANDEEP SINGH DBA ISLAND AUTO & BODY REPAIR (Continued) **1026055971**

Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-04-20 12:42:35.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SANDEEP SINGH
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14140 WASHINGTON AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578
Owner/Operator Telephone:	510-567-7286
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SANDEEP SINGH
Legal Status:	Other

SANDEEP SINGH DBA ISLAND AUTO & BODY REPAIR (Continued) **1026055971**

Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14140 WASHINGTON AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578
Owner/Operator Telephone:	510-567-7286
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SANDEEP SINGH
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14140 WASHINGTON AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578
Owner/Operator Telephone:	510-567-7286
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2020-04-17 00:00:00.0
Handler Name:	SANDEEP SINGH DBA ISLAND AUTO & BODY REPAIR
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No
Receive Date:	2020-01-27 00:00:00.0
Handler Name:	SANDEEP SINGH DBA ISLAND AUTO & BODY REPAIR
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	811111
NAICS Description:	GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:

Violations:	No Violations Found

SANDEEP SINGH DBA ISLAND AUTO & BODY REPAIR (Continued) **1026055971**

Evaluation Action Summary:
Evaluations: No Evaluations Found

B23 **LARSEN BROS LUMBER INC** **RCRA-SQG** **1001217607**
NNE **14200 WASHINGTON AVE** **FINDS** **CAR000037986**
< 1/8 **SAN LEANDRO, CA 94578** **ECHO**
0.018 mi. **HAZNET**
97 ft. **Site 8 of 14 in cluster B** **HWTS**

Relative: **Higher**
Actual: **41 ft.**

RCRA-SQG:

Date Form Received by Agency:		1998-03-31 00:00:00.0
Handler Name:	LARSEN BROS LUMBER INC	
Handler Address:		14200 WASHINGTON AVE
Handler City,State,Zip:		SAN LEANDRO, CA 94578
EPA ID:		CAR000037986
Contact Name:		WILLIAM LARSEN
Contact Address:		14200 WASHINGTON AVE
Contact City,State,Zip:		SAN LEANDRO, CA 94578
Contact Telephone:		510-357-5020
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		14200 WASHINGTON AVE
Mailing City,State,Zip:		SAN LEANDRO, CA 94578
Owner Name:		PATRICIA LARSEN
Owner Type:		Private
Operator Name:		Not reported
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN

LARSEN BROS LUMBER INC (Continued) **1001217607**

Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2002-10-07 16:38:48.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D018
Waste Description:	BENZENE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PATRICIA LARSEN
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14200 WASHINGTON AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578

LARSEN BROS LUMBER INC (Continued) **1001217607**

Owner/Operator Telephone: 510-357-5020
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 1998-03-31 00:00:00.0
Handler Name: LARSEN BROS LUMBER INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002921615

Click Here:

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

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1001217607
Registry ID: 110002921615
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002921615
Name: LARSEN BROS LUMBER INC
Address: 14200 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578

HAZNET:

LARSEN BROS LUMBER INC (Continued) **1001217607**

Name:	LARSEN BROS LUMBER INC
Address:	14200 WASHINGTON AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945780000
Contact:	WILLIAM LARSEN
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	14200 WASHINGTON AVE
Year:	1998
Gepaid:	CAR000037986
TSD EPA ID:	CAT080013352
CA Waste Code:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method:	R01 - Recycler
Tons:	0.35

Additional Info:

Year:	1998
Gen EPA ID:	CAR000037986
Shipment Date:	19980329
Creation Date:	6/26/1998 0:00:00
Receipt Date:	19980415
Manifest ID:	96312241
Trans EPA ID:	CAR000030114
Trans Name:	Not reported
Trans 2 EPA ID:	CAD918634116
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.35
Waste Quantity:	700
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	LARSEN BROS LUMBER INC
Address:	14200 WASHINGTON AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945780000
EPA ID:	CAR000037986
Inactive Date:	06/30/1998
Create Date:	05/13/1998
Last Act Date:	09/29/2020
Mailing Name:	SAM LARS
Mailing Address:	14200 WASHINGTON AVE

LARSEN BROS LUMBER INC (Continued) **1001217607**

Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN LEANDRO, CA 945780000
Owner Name:	PATRICIA LARSEN
Owner Address:	14200 WASHINGTON AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	SAN LEANDRO, CA 945780000
Contact Name:	SAM LARSEN
Contact Address:	14200 WASHINGTON AVE
Contact Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 94578

B24 **LARSON BROTHERS LUMBER** **LUST** **S103974335**
NNE **14200 WASHINGTON AVE** **Cortese** **N/A**
< 1/8 **SAN LEANDRO, CA 94578** **HIST CORTESE**
0.018 mi. **CERS**
97 ft. **Site 9 of 14 in cluster B**

Relative:
Higher

Actual:
41 ft.

LUST:

Name:	LARSON BROTHERS LUMBER
Address:	14200 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Lead Agency:	SAN LEANDRO, CITY OF
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100814
Global Id:	T0600100814
Latitude:	37.707783
Longitude:	-122.143944
Status:	Completed - Case Closed
Status Date:	10/01/2009
Case Worker:	LM
RB Case Number:	01-0881
Local Agency:	SAN LEANDRO, CITY OF
File Location:	Local Agency
Local Case Number:	01-0881
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0600100814
Contact Type:	Local Agency Caseworker
Contact Name:	LISA MAFFEI
Organization Name:	SAN LEANDRO, CITY OF
Address:	835 E14TH STREET
City:	SAN LEANDRO
Email:	lmaffei@sanleandro.org
Phone Number:	Not reported

Global Id:	T0600100814
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LARSON BROTHERS LUMBER (Continued) **S103974335**

LUST:
Global Id: T0600100814
Action Type: RESPONSE
Date: 01/21/1994
Action: Other Report / Document

Global Id: T0600100814
Action Type: RESPONSE
Date: 07/08/1996
Action: Monitoring Report - Other

Global Id: T0600100814
Action Type: RESPONSE
Date: 07/08/1986
Action: Correspondence

Global Id: T0600100814
Action Type: Other
Date: 07/10/1986
Action: Leak Discovery

Global Id: T0600100814
Action Type: Other
Date: 07/10/1986
Action: Leak Stopped

Global Id: T0600100814
Action Type: Other
Date: 07/10/1986
Action: Leak Reported

Global Id: T0600100814
Action Type: ENFORCEMENT
Date: 01/08/2009
Action: Closure/No Further Action Letter

LUST:
Global Id: T0600100814
Status: Open - Case Begin Date
Status Date: 05/22/1986

Global Id: T0600100814
Status: Open - Site Assessment
Status Date: 05/22/1986

Global Id: T0600100814
Status: Completed - Case Closed
Status Date: 10/01/2009

LUST REG 2:
Region: 2
Facility Id: 01-0881
Facility Status: Preliminary site assessment underway
Case Number: 01-0881
How Discovered: Tank Closure

LARSON BROTHERS LUMBER (Continued) **S103974335**

Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 5/22/1986
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CORTESE:
Name: LARSON BROTHERS LUMBER
Address: 14200 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600100814
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: LARSON BROTHERS LUMBER
edr_fadd1: 14200 WASHINGTON
City,State,Zip: SAN LEANDRO, CA
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0881

CERS:
Name: LARSON BROTHERS LUMBER
Address: 14200 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 192437
CERS ID: T0600100814
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker

LARSON BROTHERS LUMBER (Continued) **S103974335**

Entity Name: LISA MAFFEI - SAN LEANDRO, CITY OF
Entity Title: Not reported
Affiliation Address: 835 E14TH STREET
Affiliation City: SAN LEANDRO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

B25 **LARSEN BROS.** **SWEEPS UST** **S101580074**
NNE **14200 WASHINGTON** **CA FID UST** **N/A**
< 1/8 **SAN LEANDRO, CA 94578**
0.018 mi.
97 ft. **Site 10 of 14 in cluster B**

Relative: **Higher**
Actual: **41 ft.**

SWEEPS UST:
Name: LARSEN BROS.
Address: 14200 WASHINGTON
City: SAN LEANDRO
Status: Active
Comp Number: 3505
Number: 1
Board Of Equalization: Not reported
Referral Date: 07-16-91
Action Date: 07-16-91
Created Date: 07-16-91
Owner Tank Id: 1A
SWRCB Tank Id: 01-007-003505-000001
Tank Status: A
Capacity: 500
Active Date: 07-16-91
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 2

Name: LARSEN BROS.
Address: 14200 WASHINGTON
City: SAN LEANDRO
Status: Active
Comp Number: 3505
Number: 1
Board Of Equalization: Not reported
Referral Date: 07-16-91
Action Date: 07-16-91
Created Date: 07-16-91
Owner Tank Id: 1B

LARSEN BROS. (Continued) **S101580074**

SWRCB Tank Id: 01-007-003505-000002
Tank Status: A
Capacity: 500
Active Date: 07-16-91
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 01000997
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4153575020
Mail To: Not reported
Mailing Address: 14200 WASHINGTON
Mailing Address 2: Not reported
Mailing City,St,Zip: SAN LEANDRO 94578
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

B26 **RONIN PRODUCT DEVELOPMENT LABS** **RCRA NonGen / NLR** **1025875569**
North **14130 WASHINGTON AVE** **CAL000448704**
< 1/8 **SAN LEANDRO, CA 94578**
0.019 mi.
98 ft. **Site 11 of 14 in cluster B**

Relative:
Higher

Actual:
41 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 2019-09-06 00:00:00.0
Handler Name: RONIN PRODUCT DEVELOPMENT LABS
Handler Address: 14130 WASHINGTON AVE
Handler City,State,Zip: SAN LEANDRO, CA 94578
EPA ID: CAL000448704
Contact Name: TIMOTHY TAYLOR
Contact Address: 14130 WASHINGTON AVE
Contact City,State,Zip: SAN LEANDRO, CA 94578
Contact Telephone: 510-421-5817
Contact Fax: Not reported
Contact Email: TIM.TAYLOR@RONINPDLABS.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: Not reported
State District: Not reported
Mailing Address: 10515 CRESTON DR

RONIN PRODUCT DEVELOPMENT LABS (Continued) **1025875569**

Mailing City,State,Zip:	LOS ALTOS, CA 94024
Owner Name:	RICH TANGNEY
Owner Type:	Other
Operator Name:	TIMOTHY TAYLOR
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-09-10 12:41:12.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No

RONIN PRODUCT DEVELOPMENT LABS (Continued) **1025875569**

Recycler Activity Without Storage: No
Manifest Broker: No
Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: TIMOTHY TAYLOR
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 14130 WASHINGTON AVE
Owner/Operator City,State,Zip: SAN LEANDRO, CA 94578
Owner/Operator Telephone: 510-421-5817
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: RICH TANGNEY
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 10515 CRESTON DR
Owner/Operator City,State,Zip: LOS ALTOS, CA 94024
Owner/Operator Telephone: 408-596-0330
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2019-09-06 00:00:00.0
Handler Name: RONIN PRODUCT DEVELOPMENT LABS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 337215
NAICS Description: SHOWCASE, PARTITION, SHELVING, AND LOCKER MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B27 **ENGEL HOLDINGS INC DBA CABRILLO HOIST** **CERS HAZ WASTE** **S124867161**
North **14160 WASHINGTON AVE** **HAZNET** **N/A**
< 1/8 **SAN LEANDRO, CA 94578** **CERS**
0.019 mi. **HWTS**
101 ft. **Site 12 of 14 in cluster B**

Relative: Higher

Actual: 41 ft.

CERS HAZ WASTE:
Name: SUPERIOR GUNITE
Address: 14160 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 562773
CERS ID: 10833643
CERS Description: Hazardous Waste Generator

HAZNET:
Name: ENGEL HOLDINGS INC DBA CABRILLO HOIST
Address: 14160 WASHINGTON AVE
Address 2: Not reported
City,State,Zip: SAN LEANDRO, CA 917290000
Contact: HECTOR MELGAR
Telephone: 9519903241
Mailing Name: Not reported
Mailing Address: P.O. BOX 3179

Year: 2018
Gepaid: CAL000322171
TSD EPA ID: AZR000515924
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 6.30000

CERS:
Name: SUPERIOR GUNITE
Address: 14160 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 562773
CERS ID: 10833643
CERS Description: Chemical Storage Facilities

Affiliation:
Affiliation Type Desc: Operator
Entity Name: SUPERIOR GUNITE
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 568-8112

Affiliation Type Desc: Environmental Contact
Entity Name: SCOTTY BRUNER
Entity Title: Not reported
Affiliation Address: 14160 Washington Avenue
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: Not reported

ENGEL HOLDINGS INC DBA CABRILLO HOIST (Continued) **S124867161**

Affiliation Zip: 94578
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: SUPERIOR GUNITE
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: San Leandro City
Entity Title: Not reported
Affiliation Address: 835 East 14th Street
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94577
Affiliation Phone: (510) 577-3401

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 14160 Washington Avenue
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94578
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: SCOTTY BRUNER
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Tutor Perini Corporation
Entity Title: Not reported
Affiliation Address: 15901 Olden Street
Affiliation City: Sylmar
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91342
Affiliation Phone: (818) 896-9199

HWTS:
Name: ENGEL HOLDINGS INC DBA CABRILLO HOIST
Address: 14160 WASHINGTON AVE

ENGEL HOLDINGS INC DBA CABRILLO HOIST (Continued) **S124867161**

Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945783325
EPA ID:	CAL000322171
Inactive Date:	06/30/2020
Create Date:	07/12/2007
Last Act Date:	01/04/2021
Mailing Name:	Not reported
Mailing Address:	P.O. BOX 3179
Mailing Address 2:	Not reported
Mailing City,State,Zip:	RANCHO CUCAMONGA, CA 917290000
Owner Name:	ENGEL HONDINGS INC
Owner Address:	P.O. BOX 3179
Owner Address 2:	Not reported
Owner City,State,Zip:	RANCHO CUCAMONGA, CA 917290000
Contact Name:	HECTOR MELGAR
Contact Address:	P.O. BOX 3179
Contact Address 2:	Not reported
City,State,Zip:	RANCHO CUCAMONGA, CA 917290000

NAICS:

EPA ID:	CAL000322171
Create Date:	2007-07-12 15:35:55.457
NAICS Code:	562991
NAICS Description:	Septic Tank and Related Services
Issued EPA ID Date:	2007-07-12 15:35:55.41000
Inactive Date:	2020-06-30 00:00:00
Facility Name:	ENGEL HOLDINGS INC DBA CABRILLO HOIST
Facility Address:	14160 WASHINGTON AVE
Facility Address 2:	Not reported
Facility City:	SAN LEANDRO
Facility County:	Not reported
Facility State:	CA
Facility Zip:	945783325

B28 **ENGEL HOLDINGS INC DBA CABRILLO HOIST** **RCRA NonGen / NLR** **1024817663**
North **14160 WASHINGTON AVE** **CAL000322171**
< 1/8 **SAN LEANDRO, CA 94578**
0.019 mi.
101 ft. **Site 13 of 14 in cluster B**

Relative:
Higher

Actual:
41 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2007-07-12 00:00:00.0
Handler Name:	ENGEL HOLDINGS INC DBA CABRILLO HOIST
Handler Address:	14160 WASHINGTON AVE
Handler City,State,Zip:	SAN LEANDRO, CA 94578-3325
EPA ID:	CAL000322171
Contact Name:	JAMES IVICEVIC
Contact Address:	P.O. BOX 3179
Contact City,State,Zip:	RANCHO CUCAMONGA, CA 91729-0000
Contact Telephone:	866-950-9862
Contact Fax:	310-834-3439
Contact Email:	JIVICEVIC@CABRILLOHOIST.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported

ENGEL HOLDINGS INC DBA CABRILLO HOIST (Continued) **1024817663**

Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	P.O. BOX 3179
Mailing City,State,Zip:	RANCHO CUCAMONGA, CA 91729-0000
Owner Name:	ENGEL HONDINGS INC
Owner Type:	Other
Operator Name:	JAMES IVICEVIC
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No

ENGEL HOLDINGS INC DBA CABRILLO HOIST (Continued) **1024817663**

Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 20:29:28.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ENGEL HONDINGS INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	P.O. BOX 3179
Owner/Operator City,State,Zip:	RANCHO CUCAMONGA, CA 91729-0000
Owner/Operator Telephone:	866-950-9862
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JAMES IVICEVIC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	P.O. BOX 3179
Owner/Operator City,State,Zip:	RANCHO CUCAMONGA, CA 91729-0000
Owner/Operator Telephone:	866-950-9862
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2007-07-12 00:00:00.0
Handler Name:	ENGEL HOLDINGS INC DBA CABRILLO HOIST
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	562991
NAICS Description:	SEPTIC TANK AND RELATED SERVICES

Facility Has Received Notices of Violations:

ENGEL HOLDINGS INC DBA CABRILLO HOIST (Continued) **1024817663**

Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B29 **SUPERIOR GUNITE** **RCRA NonGen / NLR** **1026721619**
North **14160 WASHINGTON AVE** **CAL000458648**
< 1/8 **SAN LEANDRO, CA 94578**
0.019 mi.
101 ft. **Site 14 of 14 in cluster B**

Relative: **Higher**
Actual: **41 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2020-12-03 00:00:00.0
Handler Name:	SUPERIOR GUNITE	
Handler Address:		14160 WASHINGTON AVE
Handler City,State,Zip:		SAN LEANDRO, CA 94578
EPA ID:		CAL000458648
Contact Name:		SCOTTY BRUNER
Contact Address:		14160 WASHINGTON AVE
Contact City,State,Zip:		SAN LEANDRO, CA 94578
Contact Telephone:		510-568-8112
Contact Fax:		Not reported
Contact Email:		SCOTTY.BRUNER@SHOTCRETE.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		14160 WASHINGTON AVE
Mailing City,State,Zip:		SAN LEANDRO, CA 94578
Owner Name:		SUPERIOR GUNITE
Owner Type:		Other
Operator Name:		SCOTTY BRUNER
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---

SUPERIOR GUNITE (Continued) **1026721619**

Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-12-18 21:42:23.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SUPERIOR GUNITE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14160 WASHINGTON AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578
Owner/Operator Telephone:	510-568-8112
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SCOTTY BRUNER
Legal Status:	Other
Date Became Current:	Not reported

SUPERIOR GUNITE (Continued) **1026721619**

Date Ended Current: Not reported
Owner/Operator Address: 14160 WASHINGTON AVE
Owner/Operator City,State,Zip: SAN LEANDRO, CA 94578
Owner/Operator Telephone: 510-568-8112
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2020-12-03 00:00:00.0
Handler Name: SUPERIOR GUNITE
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 238990
NAICS Description: ALL OTHER SPECIALTY TRADE CONTRACTORS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A30 **CTY OF SAN LEANDRO PUB WKS CNT** **SWEEPS UST** **S101580488**
SW **14200 CHAPMAN RD** **HIST UST** **N/A**
< 1/8 **SAN LEANDRO, CA 94578** **CA FID UST**
0.021 mi.
110 ft. **Site 16 of 19 in cluster A**

Relative: **Lower**
Actual: **38 ft.**

SWEEPS UST:
Name: CTY OF SAN LEANDRO PUB WKS CNT
Address: 14200 CHAPMAN RD
City: SAN LEANDRO
Status: Active
Comp Number: 32188
Number: 4
Board Of Equalization: 44-001123
Referral Date: 11-01-91
Action Date: 11-01-91
Created Date: 02-29-88
Owner Tank Id: PWSC-1
SWRCB Tank Id: 01-007-032188-000001
Tank Status: A
Capacity: 20000
Active Date: 11-01-91
Tank Use: M.V. FUEL

CTY OF SAN LEANDRO PUB WKS CNT (Continued) **S101580488**

STG: P
Content: REG UNLEADED
Number Of Tanks: 6

Name: CTY OF SAN LEANDRO PUB WKS CNT
Address: 14200 CHAPMAN RD
City: SAN LEANDRO
Status: Active
Comp Number: 32188
Number: 4
Board Of Equalization: 44-001123
Referral Date: 11-01-91
Action Date: 11-01-91
Created Date: 02-29-88
Owner Tank Id: PWSC-2
SWRCB Tank Id: 01-007-032188-000002
Tank Status: A
Capacity: 12000
Active Date: 11-01-91
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: CTY OF SAN LEANDRO PUB WKS CNT
Address: 14200 CHAPMAN RD
City: SAN LEANDRO
Status: Active
Comp Number: 32188
Number: 4
Board Of Equalization: 44-001123
Referral Date: 11-01-91
Action Date: 11-01-91
Created Date: 02-29-88
Owner Tank Id: PWSC-3
SWRCB Tank Id: 01-007-032188-000003
Tank Status: A
Capacity: 20000
Active Date: 11-01-91
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

Name: CTY OF SAN LEANDRO PUB WKS CNT
Address: 14200 CHAPMAN RD
City: SAN LEANDRO
Status: Active
Comp Number: 32188
Number: 4
Board Of Equalization: 44-001123
Referral Date: 11-01-91
Action Date: 11-01-91
Created Date: 02-29-88
Owner Tank Id: PWSC-4
SWRCB Tank Id: 01-007-032188-000004
Tank Status: A

CTY OF SAN LEANDRO PUB WKS CNT (Continued) **S101580488**

Capacity: 12000
Active Date: 11-01-91
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: CTY OF SAN LEANDRO PUB WKS CNT
Address: 14200 CHAPMAN RD
City: SAN LEANDRO
Status: Active
Comp Number: 32188
Number: 4
Board Of Equalization: 44-001123
Referral Date: 11-01-91
Action Date: 11-01-91
Created Date: 02-29-88
Owner Tank Id: PWSC-5
SWRCB Tank Id: 01-007-032188-000005
Tank Status: A
Capacity: 550
Active Date: 07-01-85
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: Not reported

Name: CTY OF SAN LEANDRO PUB WKS CNT
Address: 14200 CHAPMAN RD
City: SAN LEANDRO
Status: Active
Comp Number: 32188
Number: 4
Board Of Equalization: 44-001123
Referral Date: 11-01-91
Action Date: 11-01-91
Created Date: 02-29-88
Owner Tank Id: PWSC-6
SWRCB Tank Id: 01-007-032188-000006
Tank Status: A
Capacity: 550
Active Date: 11-01-91
Tank Use: PETROLEUM
STG: P
Content: KEROSENE
Number Of Tanks: Not reported

HIST UST:
Name: PUBLIC WORKS SERVICE CENTER
Address: 14200 CHAPMAN ROAD
City,State,Zip: SAN LEANDRO, CA 94578
File Number: 00035E90
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00035E90.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported

CTY OF SAN LEANDRO PUB WKS CNT (Continued) **S101580488**

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:	01002999
Regulated By:	UTNKA
Regulated ID:	00032188
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4155773440
Mail To:	Not reported
Mailing Address:	835 E 14TH ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SAN LEANDRO 94578
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

A31 **ALAMEDA COUNTY HHW PROGRAM** **RCRA NonGen / NLR** **1024785272**
SW **14200 CHAPMAN ST** **CAH111001415**
< 1/8 **ALAMEDA, CA 94578**
0.021 mi.
110 ft. **Site 17 of 19 in cluster A**

Relative: **Lower**

Actual: **38 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2015-02-10 00:00:00.0
Handler Name:	ALAMEDA COUNTY HHW PROGRAM
Handler Address:	14200 CHAPMAN ST
Handler City,State,Zip:	ALAMEDA, CA 94578
EPA ID:	CAH111001415
Contact Name:	BILL POLLOCK
Contact Address:	1131 HARBOR BAY PKWY
Contact City,State,Zip:	ALAMEDA, CA 94502
Contact Telephone:	510-670-6460
Contact Fax:	510-293-9374
Contact Email:	BILL.POLLOCK@ACGOV.ORG
Contact Title:	Not reported
EPA Region:	09

ALAMEDA COUNTY HHW PROGRAM (Continued) **1024785272**

Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	1131 HARBOR BAY PKWY
Mailing City,State,Zip:	ALAMEDA, CA 94502
Owner Name:	ALAMEDA COUNTY HHW PROGRAM
Owner Type:	Other
Operator Name:	BILL POLLOCK
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No

ALAMEDA COUNTY HHW PROGRAM (Continued) **1024785272**

Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 15:40:39.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	BILL POLLOCK
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1131 HARBOR BAY PKWY
Owner/Operator City,State,Zip:	ALAMEDA, CA 94502
Owner/Operator Telephone:	510-670-6460
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ALAMEDA COUNTY HHW PROGRAM
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1131 HARBOR BAY PKWY
Owner/Operator City,State,Zip:	ALAMEDA, CA 94502
Owner/Operator Telephone:	510-670-6460
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2015-02-10 00:00:00.0
Handler Name:	ALAMEDA COUNTY HHW PROGRAM
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

ALAMEDA COUNTY HHW PROGRAM (Continued) **1024785272**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A32 **PUBLIC WORKS SERVICE CENTER** **UST** **U001598524**
SW **14200 CHAPMAN RD.** **CERS HAZ WASTE** **N/A**
< 1/8 **SAN LEANDOR, CA 94578** **HIST UST**
0.021 mi. **CERS TANKS**
110 ft. **Site 18 of 19 in cluster A** **CERS**

Relative:
Lower

Actual:
38 ft.

UST:
Name: PUBLIC WORKS SERVICE CENTER
Address: 14200 CHAPMAN RD.
City,State,Zip: SAN LEANDOR, CA 94578
Facility ID: 01-007-032188
Permitting Agency: SAN LEANDRO, CITY OF
Latitude: 37.7036
Longitude: -122.14285

Name: PUBLIC WORKS SERVICE CENTER
Address: 14200 CHAPMAN RD
City,State,Zip: SAN LEANDRO, CA 94578
Facility ID: 01-007-100085
Permitting Agency: San Leandro City
Latitude: 37.70453
Longitude: -122.14381

CERS HAZ WASTE:
Name: PUBLIC WORKS SERVICE CENTER
Address: 14200 CHAPMAN RD
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 145314
CERS ID: 10154843
CERS Description: Hazardous Waste Generator

HIST UST:
Name: PUBLIC WORKS SERVICE CENTER
Address: 14200 CHAPMAN RD
City,State,Zip: SAN LEANDRO, CA 94578
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000032188
Facility Type: Other
Other Type: MUNI. GOVT. FUEL STA
Contact Name: Not reported
Telephone: 4155773451
Owner Name: CITY OF SAN LEANDRO
Owner Address: 835 EAST 14TH STREET
Owner City,St,Zip: SAN LEANDRO, CA 94577
Total Tanks: 0006

Tank Num: 001

PUBLIC WORKS SERVICE CENTER (Continued) **U001598524**

Container Num:	PWSC-1
Year Installed:	1983
Tank Capacity:	00020000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	None

Tank Num:	002
Container Num:	PWSC-2
Year Installed:	1983
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	None

Tank Num:	003
Container Num:	PWSC-3
Year Installed:	1983
Tank Capacity:	00020000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4
Leak Detection:	None

Tank Num:	004
Container Num:	PWSC-4
Year Installed:	1983
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	1/4
Leak Detection:	None

Tank Num:	005
Container Num:	PWSC-5
Year Installed:	1983
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	1/4
Leak Detection:	None

Tank Num:	006
Container Num:	PWSC-6
Year Installed:	1983
Tank Capacity:	00000550
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	None

CERS TANKS:

Name:	PUBLIC WORKS SERVICE CENTER
Address:	14200 CHAPMAN RD
City,State,Zip:	SAN LEANDRO, CA 94578

PUBLIC WORKS SERVICE CENTER (Continued) **U001598524**

Site ID: 145314
CERS ID: 10154843
CERS Description: Underground Storage Tank

CERS:
Name: PUBLIC WORKS SERVICE CENTER
Address: 14200 CHAPMAN RD
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 145314
CERS ID: 10154843
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 145314
Site Name: Public Works Service Center
Violation Date: 02-02-2018
Citation: 23 CCR 16 2662(c)(1)(B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2662(c)(1)(B)
Violation Description: Failure to install corrosion protection for USTs and/or failure of the field-installed cathodic protection system to meet the consensus standards.
Violation Notes: Returned to compliance on 08/07/2018. STP sump cardboard tubes failed & need replacement
Violation Division: San Leandro City
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-02-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No changes. Hazardous waste shed at the northern end of the lot looked OK. They retain the same tracking system. All containers throughout the site are in good condition and are properly labeled. They continue to keep hazardous waste records indefinitely. No violations were observed.
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-02-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Their last complete CERS submittal was on 6/20/17. They additionally made a facility and hazardous material inventories submittal on 1/19/18. They have a new contractor who is going to make all their future CERS submittals. Their present CERS submittals are complete and accurate. Hazardous material storage looked OK with all good containers, sealed, and labeled. No violations were observed.
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-02-2018

PUBLIC WORKS SERVICE CENTER (Continued) **U001598524**

Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	(A) The cardboard tubes used to isolate UST STP components and native soil are failing or have failed. T-1, OK; T-2, failing; T-3, failing; T-4 has failed. They need to be replaced with something that will work. I have suggested they switch to fiberglass sump material. (1) All UDCs were clean and dry. (2) All UDC sensors were properly positioned and tested OK. They shut off the individual STP and shut off power to the dispenser. (3) All monthly 0.2 gph tests were documented on the history report. (4) All spill buckets tested OK. (5) DO book OK. All monthly reports with attached monthly histories were present. They were keeping DO reports all the way back to 2003. (6) DO training documented. The new contact is much more familiar with his responsibilities. (7) The ATG probes were tested for high level and tested OK. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-03-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	(1) The four remaining sumps' barriers remain in good condition with no backfill coming in contact with the STP or any other tank structures. (2) All monthly 0.2 gph tests were documented on the UST history printout. (3) All UDC sensors caused shutoff of the individual STPs. (4) All spill buckets passed their tests. (5) The DO log is up to date with all records present. (6) Training was documented. The new contact has received training from the DO. (7) The ATG probes tested OK. (8) All UDCs were clean and dry. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-03-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Storage in the hazardous waste shed continues to look OK. Individual items are logged in and tracked to disposal. Other hazardous waste OK with proper containers, labeling, and sealed. They are keeping records indefinitely. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-03-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Their last CERS submission was on 3/18/16 and their next is due by 3/18/17. The current CERS submission is accurate and complete. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS

PUBLIC WORKS SERVICE CENTER (Continued) **U001598524**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-09-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	(1) The kerosene tank was removed on 9/28/15. (2) All four remaining USTs have a barrier installed preventing backfill from coming into contact with the individuals STPs (see I:\\pictures\\Corpyard UST Sumps). (3) All monthly 0.2 gph tests were documented on the history printout. (4) UDC sensors shut off the dispensers. (5) All spill buckets passed their tests. (6) The DO log is up to date. All monthly inspections are up to date. (7) The last annual training was done on 11/12/15. (8) the ATG probes tested OK. (9) All UDCs were clean and dry. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-09-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Hazardous wastes in the shed are being logged and tracked. Storage looked good. Other containers throughout the sight were in good condition, properly labeled, and records are being kept. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-09-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Their last CERS submittal was on 4/20/15. It was complete and accurate. The next annual CERS submittal will be due by 4/19/16. No violations.
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-10-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	(1) UDCs were dry and their sensors tested OK. (2) PLLDs tested OK. Monthly 0.2 gph tests were all done in previous year. The system is typically doing multiple tests per year. (3) Spill buckets passed their tests. They were all dry and free of any debris this year. (4) The e-stop tested OK. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-10-2015
Violations Found:	No
Eval Type:	Routine done by local agency

PUBLIC WORKS SERVICE CENTER (Continued) **U001598524**

Eval Notes:	Last CERS submittal was on 4/1/14; up to date. No violations.
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-11-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	14200 Chapman Rd
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-11-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	14200 Chapman Rd
Eval Division:	San Leandro City
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-14-2020
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	(1) UDC sensors were properly positioned at the beginning and the end of the inspection. (2) UDCs were clean and dry. (3) All UDC sensors tested OK. (4) All line leak detectors tested OK. (5) All 0.2 gph tests were documented on the Veeder-Root. (6) All fiberglass isolation tube surrounding the STPs were in excellent condition. (7) All spill buckets tested OK. (8) Overfill test not done during inspection. Last test done on 2/15/19. Next test due by 10/13/21. (9) DO records OK. (10) DO facility training documented. (11) Triennial secondary containment testing done during the inspection with no violation. (12) All USTs and piping are single walled and they need to be removed by 12/31/25. A complete new UST system is scheduled to be installed in 2023 with a capitol improvement job. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-14-2020
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Their last complete CERS submittal including a UST submittal was done on 4/15/19; next submittal due by 4/15/20. Their HMBP is complete and accurate. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-15-2019
Violations Found:	No

PUBLIC WORKS SERVICE CENTER (Continued) **U001598524**

Eval Type:	Routine done by local agency
Eval Notes:	(1) The STP sumps had their waxed cardboard tubes replaced with fiberglass tubes on 8/7/18. They are holding up with no problems observed. (2) All monthly 0.2 gph tests were done and documented in the past year. (3) All UDC sensors were properly positioned and tested OK. All UDCs were clean and dry. (4) All spill buckets tested OK. (5) Overfill test done during test. All went into alarm by 90%; I observed level listed on Veeder-Root panel as each went into alarm. All ATG probes have been tested annually before the October 2018 requirement. (6) The DO log is OK with all required monthly reports on file from before October 2017. (7) New DO requirements went over with facility contact. (8) All USTs and piping (all single-walled) are scheduled to be removed and replaced in 2020. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-15-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Their last CERS HMBP submittals were on 3/12/18 and 4/11/18. They are accurate and complete. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-01-2005
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Kerosene UST temporary closure activities observed. 1) Pumped out tank with dispenser, filled 1 & 2/3 of 55 gal drums. 2) Disconnected dispenser pump from piping and locked out electrical. 3) Locked UST fill cap.
Eval Division:	San Leandro City
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-28-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The kerosene UST was removed. The UST was mostly clean, but there was some contamination along the northeast upper corner of the UST. There was also some contamination in the pea gravel. The UST was anchored to a concrete slab. The native ground sample was taken near the northeast section of the slab (closest to the contamination). The piping run was 20 feet, but two samples were taken as some of the pea gravel seemed contaminated. All native samples looked clean with no odor. 1010 - pipeline run = 20’ 0"; 1015 - 0% LEL, 20.9% oxygen; 1055 - 8’ 8" UST sample; 1103 - 4’ 6" piping sample near building; 1109 - 5’ 0" piping sample near pit; 1130 - pea gravel sample (sampler insured some contaminated gravel was included; biased).
Eval Division:	San Leandro City
Eval Program:	UST
Eval Source:	CERS

PUBLIC WORKS SERVICE CENTER (Continued) **U001598524**

Enforcement Action:

Site ID:	145314
Site Name:	Public Works Service Center
Site Address:	14200 CHAPMAN RD
Site City:	SAN LEANDRO
Site Zip:	94578
Enf Action Date:	02-02-2018
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Leandro City
Enf Action Program:	UST
Enf Action Source:	CERS

Coordinates:

Site ID:	145314
Facility Name:	Public Works Service Center
Env Int Type Code:	HWG
Program ID:	10154843
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	37.704530
Longitude:	-122.143810

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	San Leandro City
Entity Title:	Not reported
Affiliation Address:	835 East 14th Street
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	(510) 577-3401

Affiliation Type Desc:	Identification Signer
Entity Name:	Briana Lipka
Entity Title:	Environmental Specialist, Du-All Safety
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	City of San Leandro
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 577-3440

Affiliation Type Desc:	UST Property Owner Name

PUBLIC WORKS SERVICE CENTER (Continued) **U001598524**

Entity Name:	City of San Leandro
Entity Title:	Not reported
Affiliation Address:	14200 Chapman Road
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94578
Affiliation Phone:	(510) 577-3440
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	14200 Chapman Rd
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94578
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	City of San Leandro
Entity Title:	Not reported
Affiliation Address:	14200 Chapman Rd
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94578
Affiliation Phone:	(510) 577-3440
Affiliation Type Desc:	Property Owner
Entity Name:	City of San Leandro
Entity Title:	Not reported
Affiliation Address:	14200 Chapman Rd
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94578
Affiliation Phone:	(510) 577-3440
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Steven Buscovich
Entity Title:	UST Designated Operator
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 357-8185
Affiliation Type Desc:	UST Tank Operator
Entity Name:	City of San Leandro
Entity Title:	Not reported
Affiliation Address:	14200 Chapman Road
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94578

PUBLIC WORKS SERVICE CENTER (Continued) **U001598524**

Affiliation Phone:	(510) 577-3440
Affiliation Type Desc:	Document Preparer
Entity Name:	Briana Lipka, Du-all Safety
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Gary Sclafani
Entity Title:	Not reported
Affiliation Address:	14200 Chapman Road
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94578
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	San Leandro City of
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Tank Owner
Entity Name:	City of San Leandro
Entity Title:	Not reported
Affiliation Address:	14200 Chapman Road
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94578
Affiliation Phone:	(510) 577-3440

A33 **CITY OF SAN LEANDRO** **RCRA NonGen / NLR** **1024786027**
SW **14200 CHAPMAN RD.** **CAL000011495**
< 1/8 **SAN LEANDRO, CA 94578**
0.021 mi.
110 ft. **Site 19 of 19 in cluster A**

Relative: RCRA NonGen / NLR:
Lower

Actual: Date Form Received by Agency:		1993-08-04 00:00:00.0
38 ft. Handler Name:	CITY OF SAN LEANDRO	
Handler Address:		14200 CHAPMAN RD.
Handler City,State,Zip:		SAN LEANDRO, CA 94578-0000
EPA ID:		CAL000011495
Contact Name:		GAIL SCHINO
Contact Address:		835 E 14TH ST
Contact City,State,Zip:		SAN LEANDRO, CA 94577

CITY OF SAN LEANDRO (Continued) **1024786027**

Contact Telephone:	510-577-3401
Contact Fax:	510-577-6019
Contact Email:	GSCHINO@SANLEANDRO.ORG
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	835 E 14TH ST
Mailing City,State,Zip:	SAN LEANDRO, CA 94577-3767
Owner Name:	CITY OF SAN LEANDRO
Owner Type:	Other
Operator Name:	GAIL SCHINO
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

CITY OF SAN LEANDRO (Continued) **1024786027**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 15:40:54.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GAIL SCHINO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	835 E 14TH ST
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94577
Owner/Operator Telephone:	510-577-3401
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CITY OF SAN LEANDRO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	835 E 14TH ST
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94577-3767
Owner/Operator Telephone:	510-577-3401
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1993-08-04 00:00:00.0
Handler Name: CITY OF SAN LEANDRO	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported

CITY OF SAN LEANDRO (Continued) **1024786027**

Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 92119
NAICS Description: OTHER GENERAL GOVERNMENT SUPPORT

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C34 **TE BROWN INC** **HIST UST** **S118415946**
SE **14301 WASHINGTON AVE** **N/A**
< 1/8 **SAN LEANDRO, CA 94578**
0.040 mi.
209 ft. **Site 1 of 20 in cluster C**

Relative:
Higher

Actual:
39 ft.

HIST UST:
Name: TE BROWN INC
Address: 14301 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
File Number: 000363AF
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000363AF.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:

C35 **MORGAN BROTHERS PATIOS** **LUST** **S101580286**
SE **14305 WASHINGTON BLVD** **Cortese** **N/A**
< 1/8 **SAN LEANDRO, CA 94578** **HIST CORTESE**
0.041 mi. **CERS**
215 ft. **Site 2 of 20 in cluster C**

Relative:
Higher

Actual:
39 ft.

LUST:

Name:	MORGAN BROTHERS PATIOS
Address:	14305 WASHINGTON BLVD
City,State,Zip:	SAN LEANDRO, CA 94578
Lead Agency:	SAN LEANDRO, CITY OF
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101818
Global Id:	T0600101818
Latitude:	37.705836
Longitude:	-122.144451
Status:	Completed - Case Closed
Status Date:	08/05/2004
Case Worker:	Not reported
RB Case Number:	01-1968
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	01-1968
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0600101818
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600101818
Action Type:	RESPONSE
Date:	07/28/2004
Action:	Request for Closure
Global Id:	T0600101818
Action Type:	ENFORCEMENT
Date:	08/05/2004
Action:	Closure/No Further Action Letter
Global Id:	T0600101818
Action Type:	Other
Date:	02/01/1991
Action:	Leak Discovery
Global Id:	T0600101818
Action Type:	Other
Date:	02/01/1991
Action:	Leak Stopped
Global Id:	T0600101818

MORGAN BROTHERS PATIOS (Continued) **S101580286**

Action Type: Other
Date: 03/25/1991
Action: Leak Reported

LUST:
Global Id: T0600101818
Status: Open - Case Begin Date
Status Date: 02/01/1991

Global Id: T0600101818
Status: Open - Site Assessment
Status Date: 07/01/1993

Global Id: T0600101818
Status: Completed - Case Closed
Status Date: 08/05/2004

LUST REG 2:
Region: 2
Facility Id: 01-1968
Facility Status: Case Closed
Case Number: 01-1968
How Discovered: Tank Closure
Leak Cause: Corrosion
Leak Source: Tank
Date Leak Confirmed: 7/1/1993
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CORTESE:
Name: MORGAN BROTHERS PATIOS
Address: 14305 WASHINGTON BLVD
City,State,Zip: SAN LEANDRO, CA 94578
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600101818
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported

MORGAN BROTHERS PATIOS (Continued) **S101580286**

WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: MORGAN BROTHERS PATIOS
edr_fadd1: 14305 WASHINGTON
City,State,Zip: SAN LEANDRO, CA 94577
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1968

CERS:
Name: MORGAN BROTHERS PATIOS
Address: 14305 WASHINGTON BLVD
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 227837
CERS ID: T0600101818
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

C36 **MORGAN BROTHERS PATIO** **SWEEPS UST** **S106027277**
SE **14305 S WASHINGTON AVE** **CA FID UST** **N/A**
< 1/8 **SAN LEANDRO, CA 94577**
0.041 mi.
215 ft. **Site 3 of 20 in cluster C**

Relative:
Higher

Actual:
39 ft.

SWEEPS UST:
Name: MORGAN BROTHERS PATIO
Address: 14305 S WASHINGTON AVE
City: SAN LEANDRO
Status: Not reported
Comp Number: 67012
Number: Not reported
Board Of Equalization: 44-001191
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-007-067012-000001
Tank Status: Not reported
Capacity: 350
Active Date: Not reported
Tank Use: M.V. FUEL

MORGAN BROTHERS PATIO (Continued) **S106027277**

STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

CA FID UST:
Facility ID: 01002419
Regulated By: UTNKI
Regulated ID: CAC000561
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4153575220
Mail To: Not reported
Mailing Address: 14305 WASHINGTION AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: SAN LEANDRO 94577
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

C37 **MORGAN BROS PATIOS** **HIST UST** **U001598522**
SE **14305 WASHINGTON AVE** **N/A**
< 1/8 **SAN LEANDRO, CA 94578**
0.041 mi.
215 ft. **Site 4 of 20 in cluster C**

Relative:
Higher

Actual:
39 ft.

HIST UST:
Name: MORGAN BROS PATIOS
Address: 14305 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
File Number: 00035F36
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00035F36.pdf
Region: STATE
Facility ID: 00000067012
Facility Type: Other
Other Type: MASONRY SUPPLY
Contact Name: Not reported
Telephone: 4153575220
Owner Name: EARLE F. MORGAN
Owner Address: 14305 WASHINGTION AVE
Owner City,St,Zip: SAN LEANDRO, CA 94578
Total Tanks: 0001

Tank Num: 001
Container Num: #1
Year Installed: Not reported
Tank Capacity: 00000350
Tank Used for: WASTE
Type of Fuel: 1
Container Construction Thickness: X
Leak Detection: None

MORGAN BROS PATIOS (Continued) **U001598522**

Click here for Geo Tracker PDF:

C38 **FLETCHER S RICHFIELD SERVICE** **EDR Hist Auto** **1009011750**
ESE **14300 WASHINGTON AVE** **N/A**
< 1/8 **SAN LEANDRO, CA**
0.042 mi.
222 ft. **Site 5 of 20 in cluster C**

Relative: EDR Hist Auto
Higher

Actual: Year: Name: Type:
40 ft. 1959 FLETCHER S RICHFIELD SERVICE GASOLINE STATIONS

C39 **UNIVERSAL AUTO CENTER INC** **RCRA NonGen / NLR** **1024800339**
ESE **14320 WASHINGTON AVE** **CAL000219575**
< 1/8 **SAN LEANDRO, CA 94578**
0.047 mi.
248 ft. **Site 6 of 20 in cluster C**

Relative: RCRA NonGen / NLR:
Higher

Actual:
40 ft.

Date Form Received by Agency:	2001-08-23 00:00:00.0
Handler Name:	UNIVERSAL AUTO CENTER INC
Handler Address:	14320 WASHINGTON AVE
Handler City,State,Zip:	SAN LEANDRO, CA 94578-0000
EPA ID:	CAL000219575
Contact Name:	KAY W BENDER
Contact Address:	14320 WASHINGTON AVE
Contact City,State,Zip:	SAN LEANDRO, CA 94578
Contact Telephone:	510-483-7140
Contact Fax:	000-000-0000
Contact Email:	UNIVERSALAUTOCENTERSL@YAHOO.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	14320 WASHINGTON AVE
Mailing City,State,Zip:	SAN LEANDRO, CA 94578-0000
Owner Name:	UNIVERSAL AUTO CTR INC
Owner Type:	Other
Operator Name:	KAY W BENDER
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No

UNIVERSAL AUTO CENTER INC (Continued) **1024800339**

Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 15:45:13.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNIVERSAL AUTO CTR INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14320 WASHINGTON AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578-0000
Owner/Operator Telephone:	510-483-7140

UNIVERSAL AUTO CENTER INC (Continued) **1024800339**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: KAY W BENDER
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 14320 WASHINGTON AVE
Owner/Operator City,State,Zip: SAN LEANDRO, CA 94578
Owner/Operator Telephone: 510-483-7140
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2001-08-23 00:00:00.0
Handler Name: UNIVERSAL AUTO CENTER INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C40 **UNIVERSAL AUTO CENTER** **CERS HAZ WASTE** **S121792083**
ESE **14320 WASHINGTON AVE** **CERS** **N/A**
< 1/8 **SAN LEANDRO, CA 94578**
0.047 mi.
248 ft. **Site 7 of 20 in cluster C**

Relative:
Higher

Actual:
40 ft.

CERS HAZ WASTE:
Name: UNIVERSAL AUTO CENTER
Address: 14320 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 79091
CERS ID: 10444063
CERS Description: Hazardous Waste Generator

UNIVERSAL AUTO CENTER (Continued) **S121792083**

CERS:
Name: UNIVERSAL AUTO CENTER
Address: 14320 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 79091
CERS ID: 10444063
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 79091
Site Name: Universal Auto Center
Violation Date: 11-17-2015
Citation: HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description: Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 11/17/2015. HMBP recertification
Violation Division: San Leandro City
Violation Program: HMRRP
Violation Source: CERS

Site ID: 79091
Site Name: Universal Auto Center
Violation Date: 11-10-2020
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 11/10/2020. HMBP recertification due 8/2/20. HMBP resubmitted during inspection on 11/10/20 with business email update.
Violation Division: San Leandro City
Violation Program: HMRRP
Violation Source: CERS

Site ID: 79091
Site Name: Universal Auto Center
Violation Date: 10-26-2017
Citation: HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description: Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes: Returned to compliance on 10/26/2017. No used oil filters disposed of on 2016
Violation Division: San Leandro City
Violation Program: HW
Violation Source: CERS

Site ID: 79091
Site Name: Universal Auto Center
Violation Date: 10-26-2017
Citation: 40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description: Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during

UNIVERSAL AUTO CENTER (Continued) **S121792083**

storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.

Violation Notes: Returned to compliance on 10/26/2017. Container Open when not in active use
Violation Division: San Leandro City
Violation Program: HW
Violation Source: CERS

Site ID: 79091
Site Name: Universal Auto Center
Violation Date: 11-17-2015
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to maintain uniform hazardous waste manifest, consolidated manifest, or bills of lading copies for three years.
Violation Notes: Returned to compliance on 11/17/2015. Used oil filter BOL not available.
Violation Division: San Leandro City
Violation Program: HW
Violation Source: CERS

Site ID: 79091
Site Name: Universal Auto Center
Violation Date: 10-26-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 10/26/2017. Used oil containers missing HW labels
Violation Division: San Leandro City
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-26-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations found at Time of the Inspection, Last CERS submittals on 09/18/2017.
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-26-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Violations Found at Time of the Inspection 1) Two 55-gallon drums of used oil did not have the hazardous waste labels. Corrected at time of the inspection 2) One 55-gallon drum of used oil was not closed when

UNIVERSAL AUTO CENTER (Continued) **S121792083**

not in active use. Corrected at time of the inspection. 2) Used oil filters not disposed within one year. Used oil filters records available dated 2015-05-21 and 2017-01-27). Explanation of used oil filters disposal requirements explain to operator. 3) Disposal records of Used oil filters not available at time of the inspection. Records provided post inspection.

Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-10-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-10-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: HMBP recertification due 8/2/20. HMBP resubmitted 11/10/20 during inspection with business email update. No additional violations noted.
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-17-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Last HMBP submitted 12/13/2015. Need annual re-certification. Re-certified on CERS during biennial inspection.
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-17-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Used oil filter disposal BOL not available during inspection. Copy of BOL provided via email same day.
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 79091
Site Name: Universal Auto Center
Site Address: 14320 WASHINGTON AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 10-26-2017
Enf Action Type: Notice of Violation (Unified Program)

UNIVERSAL AUTO CENTER (Continued) **S121792083**

Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 79091
Site Name: Universal Auto Center
Site Address: 14320 WASHINGTON AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 11-10-2020
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 79091
Site Name: Universal Auto Center
Site Address: 14320 WASHINGTON AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 11-17-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 79091
Site Name: Universal Auto Center
Site Address: 14320 WASHINGTON AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 11-17-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 79091
Facility Name: Universal Auto Center
Env Int Type Code: HWG
Program ID: 10444063
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.706210
Longitude: -122.143620

Affiliation:

UNIVERSAL AUTO CENTER (Continued) **S121792083**

Affiliation Type Desc:	CUPA District
Entity Name:	San Leandro City
Entity Title:	Not reported
Affiliation Address:	835 East 14th Street
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	(510) 577-3401

Affiliation Type Desc:	Document Preparer
Entity Name:	Frank Gallo
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	Universal Auto Center
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	Kai Bender
Entity Title:	Not reported
Affiliation Address:	14320 Washington Ave
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94578
Affiliation Phone:	(510) 483-7140

Affiliation Type Desc:	Legal Owner
Entity Name:	Kai Bender
Entity Title:	Not reported
Affiliation Address:	14320 Washington Ave
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94577
Affiliation Phone:	(510) 483-7140

Affiliation Type Desc:	Environmental Contact
Entity Name:	Kai Bender
Entity Title:	Not reported
Affiliation Address:	261 Begier Ave
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported

UNIVERSAL AUTO CENTER (Continued) **S121792083**

Affiliation Zip:	94578
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Frank Gallo
Entity Title:	Office Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	14320 Washington Ave
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94578
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Kai Bender
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 483-7140

D41 **295 139TH AVE** **Alameda County CS** **S113036991**
NNW **295 139TH AVE** **N/A**
< 1/8 **SAN LEANDRO, CA 94578**
0.055 mi.
288 ft. **Site 1 of 4 in cluster D**

Relative:
Higher

Actual:
42 ft.

Alameda County CS:

Name:	295 139TH AVE
Address:	295 139TH AVE
City,State,Zip:	SAN LEANDRO, CA 94578-
Status:	Leak Confirmation
Record Id:	RO0003214
PE:	5502
Facility Status:	Leak Confirmation
Latitude:	Not reported
Longitude:	Not reported

D42 **295 139TH AVENUE** **CPS-SLIC** **S119777500**
NNW **295 139TH AVENUE** **CERS** **N/A**
< 1/8 **SAN LEANDRO, CA 94578**
0.055 mi.
288 ft. **Site 2 of 4 in cluster D**

Relative:
Higher

Actual:
42 ft.

CPS-SLIC:

Name:	295 139TH AVENUE
Address:	295 139TH AVENUE
City,State,Zip:	SAN LEANDRO, CA 94578
Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	12/15/2016
Global Id:	T10000009956
Lead Agency:	ALAMEDA COUNTY LOP
Lead Agency Case Number:	RO0003214
Latitude:	37.70844
Longitude:	-122.14611
Case Type:	Cleanup Program Site
Case Worker:	JES
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	Not reported
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:

CERS:

Name:	295 139TH AVENUE
Address:	295 139TH AVENUE
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	413944
CERS ID:	T10000009956
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Cherie McCaulou - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY STREET, SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	KAREL DETTERMAN - ALAMEDA COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1131 Harbor Bay Parkway
Affiliation City:	ALAMEDA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	5105676708

C43 **H/T AUTO REPAIR** **RCRA NonGen / NLR** **1024809762**
ESE **14330 WASHINGTON AVE** **CAL000286422**
< 1/8 **SAN LEANDRO, CA 94578**
0.063 mi.
335 ft. **Site 8 of 20 in cluster C**

Relative: **Higher**
Actual: **39 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2004-09-15 00:00:00.0
Handler Name:	H/T AUTO REPAIR	
Handler Address:		14330 WASHINGTON AVE
Handler City,State,Zip:		SAN LEANDRO, CA 94578-3419
EPA ID:		CAL000286422
Contact Name:		HUNG NGUYEN
Contact Address:		14330 WASHINGTON AVE
Contact City,State,Zip:		SAN LEANDRO, CA 94578
Contact Telephone:		510-351-4999
Contact Fax:		510-352-3696
Contact Email:		HVN431@SBCGLOBAL.NET
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		14330 WASHINGTON AVE
Mailing City,State,Zip:		SAN LEANDRO, CA 94578-3419
Owner Name:		HUNG V NGUYEN
Owner Type:		Other
Operator Name:		HUNG NGUYEN
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

H/T AUTO REPAIR (Continued) **1024809762**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 20:26:01.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	HUNG V NGUYEN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14330 WASHINGTON AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578-3419
Owner/Operator Telephone:	510-531-4999
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	HUNG NGUYEN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14330 WASHINGTON AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578
Owner/Operator Telephone:	510-351-4999
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

H/T AUTO REPAIR (Continued) **1024809762**

Historic Generators:
Receive Date: 2004-09-15 00:00:00.0
Handler Name: H/T AUTO REPAIR
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C44 **H/T AUTO REPAIR AND SERVICE** **CERS HAZ WASTE** **S121740864**
ESE **14330 WASHINGTON AVE** **CERS** **N/A**
< 1/8 **SAN LEANDRO, CA 94578**
0.063 mi.
335 ft. **Site 9 of 20 in cluster C**

Relative:
Higher

Actual:
39 ft.

CERS HAZ WASTE:
Name: H/T AUTO REPAIR AND SERVICE
Address: 14330 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 121291
CERS ID: 10457383
CERS Description: Hazardous Waste Generator

CERS:
Name: H/T AUTO REPAIR AND SERVICE
Address: 14330 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 121291
CERS ID: 10457383
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 121291
Site Name: H/T Auto Repair and Service
Violation Date: 05-09-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.

H/T AUTO REPAIR AND SERVICE (Continued) **S121740864**

Violation Notes:	Returned to compliance on 05/09/2017. Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Division:	San Leandro City
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	121291
Site Name:	H/T Auto Repair and Service
Violation Date:	05-09-2017
Citation:	22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description:	Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes:	Returned to compliance on 05/12/2017. HW (EPA) ID number inactive per HWTS
Violation Division:	San Leandro City
Violation Program:	HW
Violation Source:	CERS
Site ID:	121291
Site Name:	H/T Auto Repair and Service
Violation Date:	07-02-2019
Citation:	40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Returned to compliance on 07/02/2019. Used drained/undrained oil filter drum was not closed (no lid) and was being used to store 4' fluorescent drums. Corrected during inspection.
Violation Division:	San Leandro City
Violation Program:	HW
Violation Source:	CERS
Site ID:	121291
Site Name:	H/T Auto Repair and Service
Violation Date:	07-02-2019
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 08/05/2019. Failure to properly label used oil and antifreeze drums.
Violation Division:	San Leandro City
Violation Program:	HW
Violation Source:	CERS
Site ID:	121291
Site Name:	H/T Auto Repair and Service

H/T AUTO REPAIR AND SERVICE (Continued) **S121740864**

Violation Date: 07-02-2019
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 07/02/2019. Failure to annually review and recertify HMBP. Last sumittal 5/9/17. HMBP submitted during inspection.
Violation Division: San Leandro City
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-02-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date. Last HMBP certification and submittal 5/9/2017. HMBP reviewed and submitted during inspection
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-02-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date. Used drained/undrained oil filter drum was not closed (no lid) and was being used to store 4’ fluorescent drums. Corrected during inspection.
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-08-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-08-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HW

H/T AUTO REPAIR AND SERVICE (Continued) **S121740864**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-08-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-08-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-10-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-10-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-05-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-05-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection

H/T AUTO REPAIR AND SERVICE (Continued) **S121740864**

Eval Date:	05-09-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date. Corrected during inspection 5/9/17.
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-09-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	HW (EPA) ID number inactive per HWTS. DTSC Form 1358 completed and submitted to DTSC during inspection. EPA ID number reactivated by DTSC on 5/12/17 per HWTS
Eval Division:	San Leandro City
Eval Program:	HW
Eval Source:	CERS

Enforcement Action:

Site ID:	121291
Site Name:	H/T Auto Repair and Service
Site Address:	14330 WASHINGTON AVE
Site City:	SAN LEANDRO
Site Zip:	94578
Enf Action Date:	05-09-2017
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Leandro City
Enf Action Program:	HMRRP
Enf Action Source:	CERS
Site ID:	121291
Site Name:	H/T Auto Repair and Service
Site Address:	14330 WASHINGTON AVE
Site City:	SAN LEANDRO
Site Zip:	94578
Enf Action Date:	05-09-2017
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Leandro City
Enf Action Program:	HW
Enf Action Source:	CERS
Site ID:	121291
Site Name:	H/T Auto Repair and Service
Site Address:	14330 WASHINGTON AVE
Site City:	SAN LEANDRO
Site Zip:	94578
Enf Action Date:	07-02-2019
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported

H/T AUTO REPAIR AND SERVICE (Continued) **S121740864**

Enf Action Division:	San Leandro City
Enf Action Program:	HMRRP
Enf Action Source:	CERS
Site ID:	121291
Site Name:	H/T Auto Repair and Service
Site Address:	14330 WASHINGTON AVE
Site City:	SAN LEANDRO
Site Zip:	94578
Enf Action Date:	07-02-2019
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Leandro City
Enf Action Program:	HW
Enf Action Source:	CERS

Coordinates:

Site ID:	121291
Facility Name:	H/T Auto Repair and Service
Env Int Type Code:	HWG
Program ID:	10457383
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	37.705510
Longitude:	-122.143520

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	San Leandro City
Entity Title:	Not reported
Affiliation Address:	835 East 14th Street
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	(510) 577-3401
Affiliation Type Desc:	Parent Corporation
Entity Name:	H/T Auto Repair and Service
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Hung Nguyen
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

H/T AUTO REPAIR AND SERVICE (Continued) **S121740864**

Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: HUNG NGUYEN
Entity Title: Not reported
Affiliation Address: 14330 Washington Ave
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94578
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Hung Nguyen
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: Hung Nguyen
Entity Title: Not reported
Affiliation Address: 14330 washington avenue
Affiliation City: san leandro
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94578
Affiliation Phone: (510) 351-4999

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 14330 washington avenue
Affiliation City: san leandro
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94578
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: HUNG NGUYEN
Entity Title: Not reported
Affiliation Address: 14330 Washington Ave
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94578
Affiliation Phone: (510) 351-4999

Affiliation Type Desc: Operator
Entity Name: HUNG NGUYEN
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported

H/T AUTO REPAIR AND SERVICE (Continued) **S121740864**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 377-6422

D45 **UNION AUTO REPAIR** **RCRA NonGen / NLR** **1024804454**
NNW **14078 WASHINGTON AVE** **CAL000258261**
< 1/8 **SAN LEANDRO, CA 94578**
0.066 mi.
350 ft. **Site 3 of 4 in cluster D**

Relative: **Higher**
Actual: **42 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2002-08-26 00:00:00.0
Handler Name:	UNION AUTO REPAIR	
Handler Address:		14078 WASHINGTON AVE
Handler City,State,Zip:		SAN LEANDRO, CA 94578
EPA ID:		CAL000258261
Contact Name:		VANCE LA
Contact Address:		14078 WASHINGTON AVE
Contact City,State,Zip:		SAN LEANDRO, CA 94578
Contact Telephone:		510-351-0467
Contact Fax:		000-000-0000
Contact Email:		LUCLA68@YAHOO.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		14078 WASHINGTON AVE
Mailing City,State,Zip:		SAN LEANDRO, CA 94578-0000
Owner Name:		LUC LA
Owner Type:		Other
Operator Name:		VANCE LA
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported

UNION AUTO REPAIR (Continued) **1024804454**

Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 15:46:23.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	LUC LA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14078 WASHINGTON AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578-0000
Owner/Operator Telephone:	510-351-0467
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	VANCE LA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported

UNION AUTO REPAIR (Continued) **1024804454**

Owner/Operator Address: 14078 WASHINGTON AVE
Owner/Operator City,State,Zip: SAN LEANDRO, CA 94578
Owner/Operator Telephone: 510-351-0467
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2002-08-26 00:00:00.0
Handler Name: UNION AUTO REPAIR
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

D46 **UNION AUTO REPAIR** **CERS HAZ WASTE** **S121792025**
NNW **14078 WASHINGTON AVE** **CERS** **N/A**
< 1/8 **SAN LEANDRO, CA 94578** **HWTS**
0.066 mi.
350 ft. **Site 4 of 4 in cluster D**

Relative:
Higher

Actual:
42 ft.

CERS HAZ WASTE:
Name: UNION AUTO REPAIR
Address: 14078 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 78722
CERS ID: 10457053
CERS Description: Hazardous Waste Generator

CERS:
Name: UNION AUTO REPAIR
Address: 14078 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 78722
CERS ID: 10457053
CERS Description: Chemical Storage Facilities

Coordinates:
Site ID: 78722

UNION AUTO REPAIR (Continued) **S121792025**

Facility Name:	union auto repair
Env Int Type Code:	HWG
Program ID:	10457053
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	37.708760
Longitude:	-122.145660

Affiliation:

Affiliation Type Desc:	Legal Owner
Entity Name:	luc la
Entity Title:	Not reported
Affiliation Address:	14078 Washington Ave
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94578
Affiliation Phone:	(510) 351-0467

Affiliation Type Desc:	Document Preparer
Entity Name:	luc la
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	luc la
Entity Title:	Not reported
Affiliation Address:	14078 Washington Ave
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94578
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	14078 Washington Ave
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94578
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Luc La
Entity Title:	Owner/Operator
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

UNION AUTO REPAIR (Continued) **S121792025**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	UNION AUTO REPAIR
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	San Leandro City
Entity Title:	Not reported
Affiliation Address:	835 East 14th Street
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	(510) 577-3401
Affiliation Type Desc:	Operator
Entity Name:	Luc (Vance) La
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 265-4868

HWTS:

Name:	UNION AUTO REPAIR
Address:	14078 WASHINGTON AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 94578
EPA ID:	CAL000258261
Inactive Date:	Not reported
Create Date:	08/26/2002
Last Act Date:	07/28/2020
Mailing Name:	Not reported
Mailing Address:	14078 WASHINGTON AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN LEANDRO, CA 945780000
Owner Name:	LUC LA
Owner Address:	14078 WASHINGTON AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	SAN LEANDRO, CA 945780000
Contact Name:	VANCE LA
Contact Address:	14078 WASHINGTON AVE
Contact Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 94578

NAICS:

EPA ID:	CAL000258261

UNION AUTO REPAIR (Continued) **S121792025**

Create Date:	2002-08-26 14:34:11.297
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	2002-08-26 14:34:11.25000
Inactive Date:	Not reported
Facility Name:	UNION AUTO REPAIR
Facility Address:	14078 WASHINGTON AVE
Facility Address 2:	Not reported
Facility City:	SAN LEANDRO
Facility County:	Not reported
Facility State:	CA
Facility Zip:	94578

C47 **SUPERIOR LIFT TRUCKS INC.** **RCRA NonGen / NLR** **1024785614**
SE **14315 WASHINGTON AVE** **CAL000004787**
< 1/8 **SAN LEANDRO, CA 94578**
0.070 mi.
371 ft. **Site 10 of 20 in cluster C**

Relative: **Higher**
Actual: **39 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		1989-11-14 00:00:00.0
Handler Name:	SUPERIOR LIFT TRUCKS INC.	
Handler Address:		14315 WASHINGTON AVE
Handler City,State,Zip:		SAN LEANDRO, CA 94578-0000
EPA ID:		CAL000004787
Contact Name:		DON COLLIER
Contact Address:		55 HOOD ST
Contact City,State,Zip:		HAYWARD, CA 94541
Contact Telephone:		510-276-1065
Contact Fax:		000-000-0000
Contact Email:		DBONER5791@GMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		55 HOOD ST
Mailing City,State,Zip:		HAYWARD, CA 94541
Owner Name:		SUPERIOR LIFT TRUCKS INC.
Owner Type:		Other
Operator Name:		DON COLLIER
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No

SUPERIOR LIFT TRUCKS INC. (Continued) **1024785614**

Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 15:40:47.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DON COLLIER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	55 HOOD ST
Owner/Operator City,State,Zip:	HAYWARD, CA 94541
Owner/Operator Telephone:	510-276-1065
Owner/Operator Telephone Ext:	Not reported

SUPERIOR LIFT TRUCKS INC. (Continued) **1024785614**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: SUPERIOR LIFT TRUCKS INC.
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 55 HOOD ST
Owner/Operator City,State,Zip: HAYWARD, CA 94541
Owner/Operator Telephone: 510-276-1065
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 1989-11-14 00:00:00.0
Handler Name: SUPERIOR LIFT TRUCKS INC.
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 333924
NAICS Description: INDUSTRIAL TRUCK, TRACTOR, TRAILER, AND STACKER MACHINERY MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C48 **SUPERIOR LIFT TRUCKS INC** **HIST UST** **U001598530**
SE **14315 WASHINGTON AVE** **N/A**
< 1/8 **SAN LEANDRO, CA 94578**
0.070 mi.
371 ft. **Site 11 of 20 in cluster C**

Relative: Higher
Actual: 39 ft.

HIST UST:
Name: SUPERIOR LIFT TRUCKS INC
Address: 14315 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
File Number: 000363AA
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000363AA.pdf
Region: STATE
Facility ID: 00000040112
Facility Type: Other

SUPERIOR LIFT TRUCKS INC (Continued) **U001598530**

Other Type:	TRUCK REPAIRS
Contact Name:	DON COLLIER
Telephone:	4154830331
Owner Name:	SUPERIOR LIFT TRUCKS, INC.
Owner Address:	14315 WASHINGTON AVE.
Owner City,St,Zip:	SAN LEANDRO, CA 94578
Total Tanks:	0002
Tank Num:	001
Container Num:	2
Year Installed:	1973
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test
Tank Num:	002
Container Num:	1
Year Installed:	1973
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test

Click here for Geo Tracker PDF:

C49 **SUPERIOR LIFT TRUCKS, INC.** **SWEEPS UST** **S101624169**
SE **14315 WASHINGTON AVE** **CA FID UST** **N/A**
< 1/8 **SAN LEANDRO, CA 94578**
0.070 mi.
371 ft. **Site 12 of 20 in cluster C**

Relative: SWEEPS UST:
Higher

Actual:
39 ft.

Name:	SUPERIOR LIFT TRUCKS, INC.
Address:	14315 WASHINGTON AVE
City:	SAN LEANDRO
Status:	Active
Comp Number:	40112
Number:	9
Board Of Equalization:	44-001137
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	02-29-88
Owner Tank Id:	2
SWRCB Tank Id:	01-007-040112-000001
Tank Status:	A
Capacity:	1000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	2
Name:	SUPERIOR LIFT TRUCKS, INC.
Address:	14315 WASHINGTON AVE
City:	SAN LEANDRO

SUPERIOR LIFT TRUCKS, INC. (Continued) **S101624169**

Status:	Active
Comp Number:	40112
Number:	9
Board Of Equalization:	44-001137
Referral Date:	07-01-85
Action Date:	Not reported
Created Date:	02-29-88
Owner Tank Id:	1
SWRCB Tank Id:	01-007-040112-000002
Tank Status:	A
Capacity:	1000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	01003006
Regulated By:	UTNKA
Regulated ID:	00040112
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4154830331
Mail To:	Not reported
Mailing Address:	14315 WASHINGTON AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SAN LEANDRO 94578
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

C50 **BUD & RAY S BODY & PAINT SHOP** **EDR Hist Auto** **1009121947**
SE **14315 WASHINGTON AVE** **N/A**
< 1/8 **SAN LEANDRO, CA**
0.070 mi.
371 ft. **Site 13 of 20 in cluster C**

Relative: EDR Hist Auto
Higher

Actual:
39 ft.

Year:	Name:	Type:
1959	BUD & RAY S BODY & PAINT SHOP	AUTOMOBILE REPAIRING
1972	SUPERIOR LIFT TRUCKS INC	General Automotive Repair Shops
1973	SUPERIOR LIFT TRUCKS INC	General Automotive Repair Shops
1974	SUPEROR LIFT TRUCKS INC	General Automotive Repair Shops
1975	SUPERIOR LIFT TRUCKS INC	General Automotive Repair Shops
1976	SUPERIOR LIFT TRUCKS INC	General Automotive Repair Shops
1977	SUPERIOR LIFT TRUCKS INC	General Automotive Repair Shops
1978	SUPERIOR LIFT TRUCKS INC	General Automotive Repair Shops
1979	SUPERIOR LIFT TRUCKS INC	General Automotive Repair Shops
1980	SUPERIOR LIFT TRUCKS INC	Not reported

C51 **SAN LEANDRO COLLISION & CUSTOMS** **CERS HAZ WASTE** **S121789737**
SE **14332 WASHINGTON AVE** **N/A**
< 1/8 **SAN LEANDRO, CA 94578**
0.073 mi.
388 ft. **Site 14 of 20 in cluster C**

Relative:
Higher

Actual:
39 ft.

CERS HAZ WASTE:
Name: SAN LEANDRO COLLISION & CUSTOMS
Address: 14332 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 64652
CERS ID: 10502143
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 64652
Site Name: San Leandro Collision & Customs
Violation Date: 08-16-2017
Citation: HSC 6.5 25250.19(c) - California Health and Safety Code, Chapter 6.5, Section(s) 25250.19(c)
Violation Description: Failure to record in an operating log and retain for three years the following information for each shipment of recycled or exempted oil: 1) The name and address of the used oil recycling facility or generator claiming the oil meets the requirements of HSC 6.5 25250.1. 2) The name and address of the facility receiving the shipment. 3) The quantity of oil delivered. 4) The date of shipment or delivery. 5) A cross-reference to the records and documentation required under HSC 6.5 25250.1.
Violation Notes: Returned to compliance on 10/04/2017. 2015 and 2016 oil disposal receipts
Violation Division: San Leandro City
Violation Program: HW
Violation Source: CERS

Site ID: 64652
Site Name: San Leandro Collision & Customs
Violation Date: 08-16-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 10/27/2017. HW Containers with no labels
Violation Division: San Leandro City
Violation Program: HW
Violation Source: CERS

Site ID: 64652
Site Name: San Leandro Collision & Customs
Violation Date: 08-16-2017
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 10/04/2017. EPA ID Inactive
Violation Division: San Leandro City
Violation Program: HW

SAN LEANDRO COLLISION & CUSTOMS (Continued) **S121789737**

Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-16-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-16-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-16-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Violations noted at time of the inspection: 1. EPA ID CAL000171873 inactove since 2015-06-30. DTSC Form 1358 and instructions to reactivate ID given to operator. 2. 2015 and 2016 Hazardous waste disposal records not available at time of the inspection . 3. Three 55-gallon drums storing hazardous waste did not have the hazardous waste label.
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 64652
Site Name: San Leandro Collision & Customs
Site Address: 14332 WASHINGTON AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 08-16-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 64652
Facility Name: San Leandro Collision & Customs
Env Int Type Code: HWG
Program ID: 10502143
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.

SAN LEANDRO COLLISION & CUSTOMS (Continued) **S121789737**

Latitude: 37.705470
Longitude: -122.143490

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Leandro City
Entity Title: Not reported
Affiliation Address: 835 East 14th Street
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94577
Affiliation Phone: (510) 577-3401

Affiliation Type Desc: Document Preparer
Entity Name: Eduardo Garcia
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Safety Kleen
Entity Title: Not reported
Affiliation Address: 2600 N Central Expy #400
Affiliation City: San Leandro
Affiliation State: Ca
Affiliation Country: Not reported
Affiliation Zip: 94578
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Eduardo Garcia
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 614-7379

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 14332 Washington Ave
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94578
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Eduardo Garcia
Entity Title: Not reported

SAN LEANDRO COLLISION & CUSTOMS (Continued) **S121789737**

Affiliation Address:	14332 Washington Ave
Affiliation City:	San Leandro
Affiliation State:	Ca
Affiliation Country:	United States
Affiliation Zip:	94578
Affiliation Phone:	(510) 614-7379
Affiliation Type Desc:	Identification Signer
Entity Name:	EDUARDO GARCIA
Entity Title:	OWNER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	San Leandro Collision & Customs
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

C52 **PRESTIGE AUTO BODY** **RCRA-SQG** **1000388921**
SE **14332 WASHINGTON AVE** **FINDS** **CAD981416902**
< 1/8 **SAN LEANDRO, CA 94578** **ECHO**
0.073 mi. **HAZNET**
388 ft. **Site 15 of 20 in cluster C** **HWTS**

Relative: **Higher**
Actual: **39 ft.**

RCRA-SQG:

Date Form Received by Agency:		1986-06-03 00:00:00.0
Handler Name:	PRESTIGE AUTO BODY	
Handler Address:		14332 WASHINGTON AVE
Handler City,State,Zip:		SAN LEANDRO, CA 94578
EPA ID:		CAD981416902
Contact Name:		ENVIRONMENTAL MANAGER
Contact Address:		14332 WASHINGTON AVE
Contact City,State,Zip:		SAN LEANDRO, CA 94578
Contact Telephone:		415-895-0954
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		CA
State District:		2
Mailing Address:		WASHINGTON AVE
Mailing City,State,Zip:		SAN LEANDRO, CA 94578

PRESTIGE AUTO BODY (Continued) **1000388921**

Owner Name:	JERRY SMITH
Owner Type:	Private
Operator Name:	NOT REQUIRED
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2000-09-15 17:29:32.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported

PRESTIGE AUTO BODY (Continued) **1000388921**

Manifest Broker: Not reported
Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: JERRY SMITH
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NOT REQUIRED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 1986-06-03 00:00:00.0
Handler Name: PRESTIGE AUTO BODY
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:

PRESTIGE AUTO BODY (Continued) **1000388921**

Registry ID: 110059754868

Click Here:

Environmental Interest/Information System:
STATE MASTER
Registry ID: 110013851545

Click Here:

Environmental Interest/Information System:
HAZARDOUS AIR POLLUTANT MAJOR
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000388921
Registry ID:	110013851545
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110013851545
Name:	SAN LEANDRO COLLISION AND CUSTOMS
Address:	14332 WASHINGTON AVENUE
City,State,Zip:	SAN LEANDRO, CA 94578

HAZNET:

Name:	PRESTIGE AUTO BODY
Address:	14332 WASHINGTON AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945780000
Contact:	UNDELIVERABLE PER VF97 AH
Telephone:	4158950954
Mailing Name:	Not reported
Mailing Address:	14332 WASHINGTON AVE
Year:	1993
Gepaid:	CAD981416902
TSD EPA ID:	CAD009452657
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	R01 - Recycler
Tons:	1.1268
Year:	1992
Gepaid:	CAD981416902
TSD EPA ID:	CAD009452657
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	R01 - Recycler
Tons:	0.7629
Year:	1991
Gepaid:	CAD981416902
TSD EPA ID:	CAD009452657
CA Waste Code:	214 - Unspecified solvent mixture

PRESTIGE AUTO BODY (Continued) **1000388921**

Disposal Method:	R01 - Recycler
Tons:	0.4252
Year:	1991
Gepaid:	CAD981416902
TSD EPA ID:	CAD009452657
CA Waste Code:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	01 -
Tons:	1.3802
Year:	1991
Gepaid:	CAD981416902
TSD EPA ID:	CAD009452657
CA Waste Code:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	R01 - Recycler
Tons:	1.6762
Year:	1991
Gepaid:	CAD981416902
TSD EPA ID:	CAD009452657
CA Waste Code:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	-
Tons:	0
Year:	1991
Gepaid:	CAD981416902
TSD EPA ID:	CAD009452657
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	R01 - Recycler
Tons:	0.3961
Year:	1988
Gepaid:	CAD981416902
TSD EPA ID:	CAD009452657
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	R01 - Recycler
Tons:	0.688
Year:	1987
Gepaid:	CAD981416902
TSD EPA ID:	CAD009452657
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	01 -
Tons:	0.3336
Year:	1986
Gepaid:	CAD981416902
TSD EPA ID:	CAD009452657
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	R01 - Recycler
Tons:	0.5421

Click this hyperlink while viewing on your computer to access additional CA HAZNET: detail in the EDR Site Report.

PRESTIGE AUTO BODY (Continued) **1000388921**

Additional Info:

Year:	1993
Gen EPA ID:	CAD981416902
Shipment Date:	19931116
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931119
Manifest ID:	92604731
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.1512
Waste Quantity:	42
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19931011
Creation Date:	9/13/1995 0:00:00
Receipt Date:	19931011
Manifest ID:	92515086
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.1692
Waste Quantity:	47
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930729
Creation Date:	9/11/1995 0:00:00
Receipt Date:	19930730
Manifest ID:	92599494
Trans EPA ID:	CAD008252405

PRESTIGE AUTO BODY (Continued) **1000388921**

Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0936
Waste Quantity:	26
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19930519
Creation Date:	9/7/1995 0:00:00
Receipt Date:	19930521
Manifest ID:	92032973
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.1728
Waste Quantity:	48
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19930407
Creation Date:	9/6/1995 0:00:00
Receipt Date:	19930408
Manifest ID:	92041423
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	Not reported

PRESTIGE AUTO BODY (Continued) **1000388921**

Meth Code:	R01 - Recycler
Quantity Tons:	0.162
Waste Quantity:	45
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930305
Creation Date:	9/7/1995 0:00:00
Receipt Date:	19930305
Manifest ID:	92037293
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.144
Waste Quantity:	40
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930209
Creation Date:	9/15/1995 0:00:00
Receipt Date:	19930211
Manifest ID:	92033812
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.162
Waste Quantity:	45
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

PRESTIGE AUTO BODY (Continued) **1000388921**

Shipment Date:	19930114
Creation Date:	9/5/1995 0:00:00
Receipt Date:	19930114
Manifest ID:	92030437
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.072
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	PRESTIGE AUTO BODY
Address:	14332 WASHINGTON AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945780000
EPA ID:	CAD981416902
Inactive Date:	06/30/1997
Create Date:	04/10/1987
Last Act Date:	08/10/2004
Mailing Name:	Not reported
Mailing Address:	14332 WASHINGTON AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN LEANDRO, CA 945783419
Owner Name:	PRESTIGE AUTO BODY
Owner Address:	14332 WASHINGTON AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	SAN LEANDRO, CA 945783419
Contact Name:	UNDELIVERABLE PER VF97 AH
Contact Address:	14332 WASHINGTON AVE
Contact Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945783419

C53 **SAN LEANDRO COLLISION CUSTOMS** **RCRA NonGen / NLR** **1024795993**
SE **14332 WASHINGTON AVE** **CAL000171873**
< 1/8 **SAN LEANDRO, CA 94578**
0.073 mi.
388 ft. **Site 16 of 20 in cluster C**

Relative:
Higher

Actual:
39 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	1998-01-27 00:00:00.0
Handler Name:	SAN LEANDRO COLLISION CUSTOMS
Handler Address:	14332 WASHINGTON AVE
Handler City,State,Zip:	SAN LEANDRO, CA 94578-0000

SAN LEANDRO COLLISION CUSTOMS (Continued) **1024795993**

EPA ID:	CAL000171873
Contact Name:	NANCY GARCIA
Contact Address:	14332 WASHINGTON AVE
Contact City,State,Zip:	SAN LEANDRO, CA 94578-0000
Contact Telephone:	510-614-7379
Contact Fax:	Not reported
Contact Email:	SANDEANDROCOLLISIONCUSTOMS@YAHOO.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	14332 WASHINGTON AVE
Mailing City,State,Zip:	SAN LEANDRO, CA 94578-0000
Owner Name:	EDUARDO GARCIA
Owner Type:	Other
Operator Name:	NANCY GARCIA
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No

SAN LEANDRO COLLISION CUSTOMS (Continued) **1024795993**

TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 15:43:48.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NANCY GARCIA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14332 WASHINGTON AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578-0000
Owner/Operator Telephone:	510-614-7379
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EDUARDO GARCIA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14332 WASHINGTON AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578-0000
Owner/Operator Telephone:	510-614-7379
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1998-01-27 00:00:00.0
Handler Name:	SAN LEANDRO COLLISION CUSTOMS
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No

SAN LEANDRO COLLISION CUSTOMS (Continued) **1024795993**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C54 **AUTO KING GEN AUTO RPR** **RCRA-SQG** **1000595252**
SE **14334 WASHINGTON AVE** **FINDS** **CAD983591710**
< 1/8 **SAN LEANDRO, CA 94577** **ECHO**
0.078 mi.
411 ft. **Site 17 of 20 in cluster C**

Relative: **Higher**
Actual: **39 ft.**

RCRA-SQG:
Date Form Received by Agency: 1991-07-11 00:00:00.0
Handler Name: AUTO KING GEN AUTO RPR
Handler Address: 14334 WASHINGTON AVE
Handler City,State,Zip: SAN LEANDRO, CA 94577
EPA ID: CAD983591710
Contact Name: BERTULFO FIL
Contact Address: 14334 WASHINGTON AVE
Contact City,State,Zip: SAN LEANDRO, CA 94577
Contact Telephone: 415-357-0211
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Small Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: CA
State District: 2
Mailing Address: WASHINGTON AVE
Mailing City,State,Zip: SAN LEANDRO, CA 94577
Owner Name: FIL BERTULFO
Owner Type: Private
Operator Name: NOT REQUIRED
Operator Type: Private
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No

AUTO KING GEN AUTO RPR (Continued) **1000595252**

Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2000-09-15 17:30:33.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported

AUTO KING GEN AUTO RPR (Continued) **1000595252**

Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	FIL BERTULFO
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1991-07-11 00:00:00.0
Handler Name: AUTO KING GEN AUTO RPR	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

FINDS:

Registry ID: 110002850905

Click Here:

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

AUTO KING GEN AUTO RPR (Continued) **1000595252**

corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000595252
Registry ID:	110002850905
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002850905
Name:	AUTO KING GEN AUTO RPR
Address:	14334 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94577

E55 **PACIFIC BELL CO CD PACKER Q3611** **SWEEPS UST** **1000250752**
East **564 143RD** **HIST UST** **CAD982510729**
< 1/8 **SAN LEANDRO, CA 94578** **CA FID UST**
0.078 mi. **RCRA NonGen / NLR**
412 ft. **Site 1 of 4 in cluster E** **FINDS**
ECHO

Relative:
Higher

Actual:
41 ft.

SWEEPS UST:

Name:	PACIFIC BELL Q3-611
Address:	564 143RD ST
City:	SAN LEANDRO
Status:	Not reported
Comp Number:	16349
Number:	Not reported
Board Of Equalization:	44-001093
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	01-007-016349-000001
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	1

HIST UST:

Name:	PACIFIC BELL Q3-611
Address:	564 143RD STREET
City,State,Zip:	SAN LEANDRO, CA 94576
File Number:	000361EB
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000361EB.pdf
Region:	STATE
Facility ID:	00000016349
Facility Type:	Other
Other Type:	PHONE CO
Contact Name:	E.J. KOEHLER
Telephone:	4155426758
Owner Name:	PACIFIC BELL
Owner Address:	370 THIRD STREET
Owner City,St,Zip:	SAN FRANCISCO, CA 94107
Total Tanks:	0001

PACIFIC BELL CO CD PACKER Q3611 (Continued) **1000250752**

Tank Num: 001
Container Num: G-80-10K
Year Installed: 1980
Tank Capacity: 00010000
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: 01002385
Regulated By: UTNKI
Regulated ID: 00016349
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4155426758
Mail To: Not reported
Mailing Address: 370 003RD ST
Mailing Address 2: Not reported
Mailing City,St,Zip: SAN LEANDRO 94578
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

RCRA NonGen / NLR:
Date Form Received by Agency: 2018-09-17 00:00:00.0
Handler Name: PACIFIC BELL CO CD PACKER Q3611
Handler Address: 564 143RD
Handler City,State,Zip: SAN LEANDRO, CA 94578
EPA ID: CAD982510729
Contact Name: ENVIRONMENTAL MANAGER
Contact Address: 564 FIRST HUNDRED FORTY THIRD
Contact City,State,Zip: SAN LEANDRO, CA 94578
Contact Telephone: 213-738-8454
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 09
Land Type: Other
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: CA
State District: 2
Mailing Address: 3020 WILSHIRE BLVD RM 200
Mailing City,State,Zip: LOS ANGELES, CA 90016
Owner Name: PACIFIC BELL
Owner Type: County

PACIFIC BELL CO CD PACKER Q3611 (Continued) **1000250752**

Operator Name:	NOT REQUIRED
Operator Type:	County
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-10-12 18:57:17.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

PACIFIC BELL CO CD PACKER Q3611 (Continued) **1000250752**

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PACIFIC BELL
Legal Status:	County
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	County
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PACIFIC BELL
Legal Status:	County
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	County
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2018-09-17 00:00:00.0
Handler Name:	PACIFIC BELL CO CD PACKER Q3611
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No

PACIFIC BELL CO CD PACKER Q3611 (Continued) **1000250752**

Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

Receive Date:	1989-08-09 00:00:00.0
Handler Name:	PACIFIC BELL CO CD PACKER Q3611
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002837556

Click Here:

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.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000250752
Registry ID:	110002837556
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002837556
Name:	PACIFIC BELL CO CD PACKER Q3611
Address:	564 143RD

PACIFIC BELL CO CD PACKER Q3611 (Continued) **1000250752**

City,State,Zip: SAN LEANDRO, CA 94578

F56 **COLISEUM TRANSMISSION AUTO REPAIR** **RCRA NonGen / NLR** **1024871380**
North **14074 WASHINGTON AVE** **CAL000440024**
< 1/8 **SAN LEANDRO, CA 94578**
0.080 mi.
425 ft. **Site 1 of 2 in cluster F**

Relative: **Higher**
Actual: **42 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2018-10-22 00:00:00.0
Handler Name:	COLISEUM TRANSMISSION AUTO REPAIR
Handler Address:	14074 WASHINGTON AVE
Handler City,State,Zip:	SAN LEANDRO, CA 94578
EPA ID:	CAL000440024
Contact Name:	KIM TRUONG
Contact Address:	14074 WASHINGTON AVE
Contact City,State,Zip:	SAN LEANDRO, CA 94578
Contact Telephone:	510-569-3590
Contact Fax:	510-569-9758
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	14074 WASHINGTON AVE
Mailing City,State,Zip:	SAN LEANDRO, CA 94578
Owner Name:	KIM TRUONG
Owner Type:	Other
Operator Name:	KIM TRUONG
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported

COLISEUM TRANSMISSION AUTO REPAIR (Continued) **1024871380**

2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-11-20 16:32:00.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	KIM TRUONG
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14074 WASHINGTON AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578
Owner/Operator Telephone:	510-569-3590
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	KIM TRUONG
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14074 WASHINGTON AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578
Owner/Operator Telephone:	510-569-3590
Owner/Operator Telephone Ext:	Not reported

COLISEUM TRANSMISSION AUTO REPAIR (Continued) **1024871380**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2018-10-22 00:00:00.0
Handler Name: COLISEUM TRANSMISSION AUTO REPAIR
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

F57 **COLISEUM TRANSMISSION** **CERS HAZ WASTE** **S122491826**
North **14074 WASHINGTON AVE** **CERS** **N/A**
< 1/8 **SAN LEANDRO, CA 94578**
0.080 mi.
425 ft. **Site 2 of 2 in cluster F**

Relative:
Higher

Actual:
42 ft.

CERS HAZ WASTE:
Name: COLISEUM TRANSMISSION
Address: 14074 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 438125
CERS ID: 10763314
CERS Description: Hazardous Waste Generator

CERS:
Name: COLISEUM TRANSMISSION
Address: 14074 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 438125
CERS ID: 10763314
CERS Description: Chemical Storage Facilities

Coordinates:
Site ID: 438125
Facility Name: Coliseum Transmission
Env Int Type Code: HWG
Program ID: 10763314
Coord Name: Not reported

COLISEUM TRANSMISSION (Continued) **S122491826**

Ref Point Type Desc: Center of a facility or station.
Latitude: 37.708980
Longitude: -122.145220

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Dave Denis
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Dave Denis
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 14074 Washington Blvd.
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94578
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Kim Truong
Entity Title: Not reported
Affiliation Address: 14074 Washington Blvd.
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94578
Affiliation Phone: (510) 569-3590

Affiliation Type Desc: CUPA District
Entity Name: San Leandro City
Entity Title: Not reported
Affiliation Address: 835 East 14th Street
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94577
Affiliation Phone: (510) 577-3401

Affiliation Type Desc: Operator
Entity Name: Kim Truong

COLISEUM TRANSMISSION (Continued) **S122491826**

Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 569-3590
Affiliation Type Desc:	Parent Corporation
Entity Name:	Coliseum Transmission
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

C58 **THE GARAGE BODY SHOP** **CERS HAZ WASTE** **S121791511**
SE **14336 WASHINGTON AVE** **HAZNET** **N/A**
< 1/8 **SAN LEANDRO, CA 94578**
0.083 mi.
438 ft. **Site 18 of 20 in cluster C**

Relative:
Higher

Actual:
39 ft.

CERS HAZ WASTE:

Name:	THE GARAGE BODY SHOP
Address:	14336 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	74975
CERS ID:	10590634
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	74975
Site Name:	The Garage Body Shop
Violation Date:	09-20-2017
Citation:	22 CCR 23 66273.34 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.34
Violation Description:	Failure to label or mark each individual or container or the designated area of universal waste as required. 1) Waste batteries shall be marked with "Universal Waste-Battery(ies)G . 2) Mercury containing equipment shall be marked with "Universal Waste -Mercury-Containing EquipmentG . 3) Lamps shall be marked with G Universal Waste-Lamp(s)G . 4)Each electronic devices or the container or the designated area shall be marked with G Universal Waste-Electronic Device(s)G . 5) Each CRTs or the container or the designated area shall be marked with "Universal Waste-CRT(s)G . 6) CRT glass or the designated area shall be marked with G Universal Waste-CRT glassG .
Violation Notes:	Returned to compliance on 10/20/2017. Universal waste not containerized.
Violation Division:	San Leandro City
Violation Program:	HW
Violation Source:	CERS
Site ID:	74975
Site Name:	The Garage Body Shop

THE GARAGE BODY SHOP (Continued) **S121791511**

Violation Date: 09-20-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 10/23/2017.
Violation Division: San Leandro City
Violation Program: HW
Violation Source: CERS

Site ID: 74975
Site Name: The Garage Body Shop
Violation Date: 09-20-2017
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 09/26/2017. EPA ID Reactivated on 09/26/2017
Violation Division: San Leandro City
Violation Program: HW
Violation Source: CERS

Site ID: 74975
Site Name: The Garage Body Shop
Violation Date: 09-20-2017
Citation: 22 CCR 23 66273.35 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.35
Violation Description: Failure to accumulate universal waste for one year or less and to demonstrate the length of time that the universal waste has been accumulated from the date it became a waste or was received.
Violation Notes: Returned to compliance on 10/20/2017.
Violation Division: San Leandro City
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-03-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-20-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Violations Noted at Time of the Inspection 1. CAL EPA ID CAL000188777 Inactive since 2015-06-30. DTSC Form 1358 and instructions to reactivate this ID given to operator. 2. One 55-gallon drum of waste thinner did not ha hazardous waste label. 3. Universal

THE GARAGE BODY SHOP (Continued) **S121791511**

waste-Fluorescent tubes were not containerized 4. Failure to accumulate universal waste for one year or less and to demonstrate the length of time that the universal waste has been accumulated from the date it became a waste.

Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 74975
Site Name: The Garage Body Shop
Site Address: 14336 WASHINGTON AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 09-20-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 74975
Facility Name: The Garage Body Shop
Env Int Type Code: HWG
Program ID: 10590634
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.705390
Longitude: -122.143440

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Nate Marquez
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Joe Marques
Entity Title: Not reported
Affiliation Address: 14336 Washington Ave
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94578
Affiliation Phone: (510) 483-3677

Affiliation Type Desc: Operator
Entity Name: Joe Marquez
Entity Title: Not reported

THE GARAGE BODY SHOP (Continued) **S121791511**

Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 483-3677

Affiliation Type Desc: Identification Signer
Entity Name: Nate Marquez
Entity Title: Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: The Garage Body Shop
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: San Leandro City
Entity Title: Not reported
Affiliation Address: 835 East 14th Street
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94577
Affiliation Phone: (510) 577-3401

Affiliation Type Desc: Environmental Contact
Entity Name: Nate Marquez
Entity Title: Not reported
Affiliation Address: 14336 Washington Ave
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94578
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 14336 Washington Ave
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94578
Affiliation Phone: Not reported

THE GARAGE BODY SHOP (Continued) **S121791511**

HAZNET:

Name:	THE GARAGE BODY SHOP
Address:	14336 WASHINGTON AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945780000
Contact:	JOE MARQUEZ OWNER
Telephone:	5104833677
Mailing Name:	Not reported
Mailing Address:	14336 WASHINGTON AVE
Year:	2019
Gepaid:	CAL000188777
TSD EPA ID:	CAD008252405
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.05000
Year:	2019
Gepaid:	CAL000188777
TSD EPA ID:	CAD008252405
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.19800

C59 **PALACE GARAGE** **LUST** **S102434931**
SE **14336 WASHINGTON AVE** **Alameda County CS** **N/A**
< 1/8 **SAN LEANDRO, CA 94578** **Cortese**
0.083 mi. **HIST CORTESE**
438 ft. **Site 19 of 20 in cluster C** **CERS**

Relative: Higher

Actual: 39 ft.

LUST:

Name:	PALACE GARAGE
Address:	14336 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Lead Agency:	ALAMEDA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101043
Global Id:	T0600101043
Latitude:	37.7059715334131
Longitude:	-122.143088579178
Status:	Completed - Case Closed
Status Date:	06/05/2018
Case Worker:	MD
RB Case Number:	01-1133
Local Agency:	ALAMEDA COUNTY LOP
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	RO0000208
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Benzene, Ethylbenzene, Gasoline, MTBE / TBA / Other Fuel Oxygenates, Naphthalene, Toluene, Xylene
Site History:	Not all historic documents for the fuel leak case may be available on GeoTracker. Additional documents can be viewed over the Internet on the Alameda County Department of Environmental Health website (http://www.acgov.org/aceh/lop/ust.htm). Both databases should be reviewed to obtain a complete history. In February 1991 a UST, a

PALACE GARAGE (Continued) **S102434931**

dispenser, and associated piping was removed from the subject site. Overexcavation (4 5 cubic yards) is documented to have occurred thereafter. Four soil bores were installed in February 1999, three additional soil bores in March 1999, and an additional eight in July 1999. Soil and grab groundwater samples were collected to help characterize the site. Three wells were installed in May 2000, and a fourth well was installed in December 2002, along with another soil bore. Groundwater monitoring has occurred intermittently since December 2002. Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the Alameda County Environmental Health website at: http://ehgis.acgov.org/dehpublic/dehpublic.jsp.

LUST:
Global Id: T0600101043
Contact Type: Local Agency Caseworker
Contact Name: MARK DETTERMAN
Organization Name: ALAMEDA COUNTY LOP
Address: 1131 HARBOR BAY PARKWAY
City: ALAMEDA
Email: mark.detterman@acgov.org
Phone Number: 5105676876

Global Id: T0600101043
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600101043
Action Type: RESPONSE
Date: 07/22/2011
Action: Soil and Water Investigation Workplan

Global Id: T0600101043
Action Type: RESPONSE
Date: 10/14/2016
Action: Monitoring Report - Quarterly

Global Id: T0600101043
Action Type: RESPONSE
Date: 08/15/2016
Action: Electronic Reporting Submittal Due

Global Id: T0600101043
Action Type: RESPONSE
Date: 05/04/2015
Action: Correspondence

Global Id: T0600101043
Action Type: RESPONSE
Date: 12/31/2007
Action: Soil and Water Investigation Report

PALACE GARAGE (Continued) **S102434931**

Global Id: T0600101043
Action Type: RESPONSE
Date: 02/27/2001
Action: Monitoring Report - Other

Global Id: T0600101043
Action Type: RESPONSE
Date: 07/07/2017
Action: Soil and Water Investigation Report

Global Id: T0600101043
Action Type: RESPONSE
Date: 11/11/2011
Action: Soil and Water Investigation Workplan - Addendum

Global Id: T0600101043
Action Type: RESPONSE
Date: 04/13/2012
Action: Pilot Study/ Treatability Report

Global Id: T0600101043
Action Type: RESPONSE
Date: 08/31/2012
Action: CAP/RAP - Feasibility Study Report

Global Id: T0600101043
Action Type: RESPONSE
Date: 07/13/2012
Action: Electronic Reporting Submittal Due

Global Id: T0600101043
Action Type: RESPONSE
Date: 07/09/2008
Action: Correspondence

Global Id: T0600101043
Action Type: RESPONSE
Date: 12/31/2007
Action: Other Workplan

Global Id: T0600101043
Action Type: RESPONSE
Date: 12/31/2007
Action: Other Workplan

Global Id: T0600101043
Action Type: RESPONSE
Date: 03/11/2013
Action: Fact Sheets - Public Participation

Global Id: T0600101043
Action Type: RESPONSE
Date: 10/12/2012
Action: Monitoring Report - Quarterly

Global Id: T0600101043
Action Type: RESPONSE

PALACE GARAGE (Continued) **S102434931**

Date: 12/03/2002
Action: Correspondence

Global Id: T0600101043
Action Type: RESPONSE
Date: 02/10/2003
Action: Soil and Water Investigation Report

Global Id: T0600101043
Action Type: RESPONSE
Date: 04/09/1999
Action: Soil and Water Investigation Report

Global Id: T0600101043
Action Type: RESPONSE
Date: 03/08/1991
Action: Tank Removal Report / UST Sampling Report

Global Id: T0600101043
Action Type: RESPONSE
Date: 02/17/1999
Action: Preliminary Site Assessment Report

Global Id: T0600101043
Action Type: RESPONSE
Date: 02/17/1999
Action: Preliminary Site Assessment Report

Global Id: T0600101043
Action Type: RESPONSE
Date: 08/25/1999
Action: Soil and Water Investigation Report

Global Id: T0600101043
Action Type: RESPONSE
Date: 06/23/2000
Action: Soil and Water Investigation Report

Global Id: T0600101043
Action Type: RESPONSE
Date: 05/28/1993
Action: Other Report / Document

Global Id: T0600101043
Action Type: RESPONSE
Date: 03/12/2015
Action: Correspondence

Global Id: T0600101043
Action Type: RESPONSE
Date: 12/31/2007
Action: Monitoring Report - Other

Global Id: T0600101043
Action Type: RESPONSE
Date: 12/31/2007
Action: Correspondence

PALACE GARAGE (Continued) **S102434931**

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 06/11/2014
Action: Staff Letter - #20140611

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 03/14/2014
Action: Staff Letter - #20140314

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 06/30/2016
Action: Staff Letter - #20160630

Global Id: T0600101043
Action Type: RESPONSE
Date: 07/12/2013
Action: Monitoring Report - Quarterly

Global Id: T0600101043
Action Type: RESPONSE
Date: 03/08/2013
Action: Fact Sheets - Public Participation

Global Id: T0600101043
Action Type: RESPONSE
Date: 03/08/2013
Action: Monitoring Report - Quarterly

Global Id: T0600101043
Action Type: RESPONSE
Date: 03/31/2017
Action: Site Assessment Report

Global Id: T0600101043
Action Type: RESPONSE
Date: 07/09/2008
Action: Correspondence

Global Id: T0600101043
Action Type: RESPONSE
Date: 07/21/2008
Action: Correspondence

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 05/18/2011
Action: Staff Letter

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 01/09/2017
Action: Staff Letter

Global Id: T0600101043
Action Type: ENFORCEMENT

PALACE GARAGE (Continued) **S102434931**

Date: 10/22/2015
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0600101043
Action Type: RESPONSE
Date: 03/01/2013
Action: Corrective Action Plan / Remedial Action Plan - Addendum - Regulator Responded

Global Id: T0600101043
Action Type: RESPONSE
Date: 06/28/2013
Action: Soil and Water Investigation Workplan - Regulator Responded

Global Id: T0600101043
Action Type: RESPONSE
Date: 11/22/2013
Action: Soil and Water Investigation Report - Regulator Responded

Global Id: T0600101043
Action Type: RESPONSE
Date: 09/02/2014
Action: Interim Remedial Action Plan - Regulator Responded

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 10/05/2011
Action: Staff Letter - #20111005

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 10/23/2015
Action: Staff Letter - #20151023

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 02/16/2016
Action: Staff Letter - #20160216

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 09/24/2015
Action: Staff Letter - #20150924

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 08/19/2014
Action: Staff Letter

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 06/03/2008
Action: Verbal Communication

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 12/31/2007
Action: Preliminary Site Review

PALACE GARAGE (Continued) **S102434931**

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 10/09/2017
Action: Notice of Responsibility

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 10/10/2017
Action: Staff Letter

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 04/09/2018
Action: Staff Letter

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 10/09/2017
Action: Notice of Responsibility

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 06/06/2011
Action: Deadline Extension

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 01/16/2015
Action: Verbal Communication

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 04/20/2018
Action: Staff Letter

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 03/07/2018
Action: Notice of Responsibility

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 03/05/2013
Action: Staff Letter

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 05/24/2013
Action: Staff Letter

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 09/20/2013
Action: Staff Letter

Global Id: T0600101043
Action Type: ENFORCEMENT

PALACE GARAGE (Continued) **S102434931**

Date: 08/19/2014
Action: Staff Letter

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 06/23/2011
Action: Verbal Communication

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 01/12/2018
Action: Technical Correspondence / Assistance / Other

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 12/31/2007
Action: Verbal Communication

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 06/05/2018
Action: Closure/No Further Action Letter

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 02/02/2015
Action: Deadline Extension

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 08/01/2017
Action: Staff Letter

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 10/10/2017
Action: Fact Sheets - Public Participation

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 06/12/2009
Action: Staff Letter

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 10/16/2009
Action: Staff Letter

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 02/01/2013
Action: Staff Letter

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 12/22/2011
Action: Deadline Extension

PALACE GARAGE (Continued) **S102434931**

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 10/14/2013
Action: Deadline Extension

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 04/21/1993
Action: Notice of Responsibility

Global Id: T0600101043
Action Type: RESPONSE
Date: 06/11/2018
Action: Correspondence

Global Id: T0600101043
Action Type: RESPONSE
Date: 12/31/2007
Action: Monitoring Report - Other

Global Id: T0600101043
Action Type: RESPONSE
Date: 07/10/2015
Action: Final Remedial Action Report / Corrective Action Report - Regulator Responded

Global Id: T0600101043
Action Type: RESPONSE
Date: 12/18/2015
Action: Soil Vapor Intrusion Investigation Workplan - Regulator Responded

Global Id: T0600101043
Action Type: RESPONSE
Date: 01/27/2017
Action: Request for Closure - Regulator Responded

Global Id: T0600101043
Action Type: RESPONSE
Date: 04/29/2016
Action: Soil Vapor Intrusion Investigation Report - Regulator Responded

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 12/15/2011
Action: Staff Letter - #20111215

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 06/05/2017
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 11/17/2011
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0600101043
Action Type: ENFORCEMENT

PALACE GARAGE (Continued) **S102434931**

Date: 10/01/2010
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0600101043
Action Type: Other
Date: 02/01/1991
Action: Leak Discovery

Global Id: T0600101043
Action Type: Other
Date: 02/01/1991
Action: Leak Stopped

Global Id: T0600101043
Action Type: Other
Date: 02/01/1991
Action: Leak Reported

Global Id: T0600101043
Action Type: RESPONSE
Date: 07/10/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0600101043
Action Type: RESPONSE
Date: 08/13/2014
Action: Correspondence

Global Id: T0600101043
Action Type: RESPONSE
Date: 03/07/2018
Action: Correspondence

Global Id: T0600101043
Action Type: RESPONSE
Date: 12/31/2007
Action: Other Workplan

Global Id: T0600101043
Action Type: RESPONSE
Date: 12/31/2007
Action: Other Workplan

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 01/24/2013
Action: Staff Letter - #20130124

Global Id: T0600101043
Action Type: RESPONSE
Date: 10/31/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 08/22/2013
Action: Staff Letter - #20130822

PALACE GARAGE (Continued) **S102434931**

Global Id: T0600101043
Action Type: RESPONSE
Date: 12/31/2007
Action: Monitoring Report - Other

Global Id: T0600101043
Action Type: RESPONSE
Date: 08/18/2017
Action: Other Report / Document

Global Id: T0600101043
Action Type: RESPONSE
Date: 06/01/2011
Action: Correspondence

Global Id: T0600101043
Action Type: RESPONSE
Date: 07/30/2015
Action: Interim Remedial Action Report

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 09/02/2008
Action: Staff Letter - #20080902

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 10/22/2001
Action: Staff Letter - #20011022

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 05/29/2013
Action: Staff Letter - #20130529

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 06/21/2012
Action: Staff Letter - #20120621

Global Id: T0600101043
Action Type: RESPONSE
Date: 12/18/2015
Action: Soil Vapor Intrusion Investigation Report

Global Id: T0600101043
Action Type: RESPONSE
Date: 01/29/2016
Action: Monitoring Report - Semi-Annually

Global Id: T0600101043
Action Type: RESPONSE
Date: 04/08/2010
Action: Correspondence

Global Id: T0600101043
Action Type: RESPONSE

PALACE GARAGE (Continued) **S102434931**

Date: 06/18/2018
Action: Well Destruction Report

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 07/24/2009
Action: Staff Letter - #20090724

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 01/21/2014
Action: Staff Letter - #20140121

Global Id: T0600101043
Action Type: ENFORCEMENT
Date: 08/14/2014
Action: Staff Letter - #20140814

LUST:
Global Id: T0600101043
Status: Open - Case Begin Date
Status Date: 02/01/1991

Global Id: T0600101043
Status: Open - Site Assessment
Status Date: 01/29/1999

Global Id: T0600101043
Status: Open - Assessment & Interim Remedial Action
Status Date: 12/15/2011

Global Id: T0600101043
Status: Open - Verification Monitoring
Status Date: 09/24/2015

Global Id: T0600101043
Status: Open - Eligible for Closure
Status Date: 04/09/2018

Global Id: T0600101043
Status: Completed - Case Closed
Status Date: 06/05/2018

LUST REG 2:
Region: 2
Facility Id: 01-1133
Facility Status: Pollution Characterization
Case Number: 2355
How Discovered: Tank Closure
Leak Cause: Corrosion
Leak Source: Tank
Date Leak Confirmed: 4/21/1993
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported

PALACE GARAGE (Continued) **S102434931**

Pollution Characterization Began: 11/4/1997
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Name: PALACE GARAGE
Address: 14336 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Status: Pollution Characterization
Record Id: RO0000208
PE: 5602
Facility Status: Pollution Charaterization
Latitude: 37.704910275
Longitude: -122.14298854

CORTESE:
Name: PALACE GARAGE
Address: 14336 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600101043
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: PALACE GARAGE
edr_fadd1: 14336 WASHINGTON
City,State,Zip: SAN LEANDRO, CA 94578
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1133

CERS:
Name: PALACE GARAGE
Address: 14336 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578

PALACE GARAGE (Continued) **S102434931**

Site ID: 220254
CERS ID: T0600101043
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: MARK DETTERMAN - ALAMEDA COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1131 HARBOR BAY PARKWAY
Affiliation City: ALAMEDA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 5105676876

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

C60 **THE GARAGE BODY SHOP** **RCRA NonGen / NLR** **1024797490**
SE **14336 WASHINGTON AVE** **CAL000188777**
< 1/8 **SAN LEANDRO, CA 94578**
0.083 mi.
438 ft. **Site 20 of 20 in cluster C**

Relative: **Higher**

Actual: **39 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 1998-09-09 00:00:00.0
Handler Name: THE GARAGE BODY SHOP
Handler Address: 14336 WASHINGTON AVE
Handler City,State,Zip: SAN LEANDRO, CA 94578-0000
EPA ID: CAL000188777
Contact Name: JOE MARQUEZ OWNER
Contact Address: 14336 WASHINGTON AVE
Contact City,State,Zip: SAN LEANDRO, CA 94578-0000
Contact Telephone: 510-483-3677
Contact Fax: 510-483-1404
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: 14336 WASHINGTON AVE
Mailing City,State,Zip: SAN LEANDRO, CA 94578-0000
Owner Name: JOE MARQUEZ
Owner Type: Other

THE GARAGE BODY SHOP (Continued) **1024797490**

Operator Name:	JOE MARQUEZ OWNER
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 15:44:14.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

THE GARAGE BODY SHOP (Continued) **1024797490**

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JOE MARQUEZ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14336 WASHINGTON AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578-0000
Owner/Operator Telephone:	510-483-3677
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JOE MARQUEZ OWNER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14336 WASHINGTON AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578-0000
Owner/Operator Telephone:	510-483-3677
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1998-09-09 00:00:00.0
Handler Name: THE GARAGE BODY SHOP	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	811121
NAICS Description:	AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

G61 **FRANK GHIGLIONE DBA RODGERS TRUCKING, CO** **RCRA NonGen / NLR** **1024789053**
SE **14327 WASHINGTON AVE** **CAL000058405**
< 1/8 **SAN LEANDRO, CA 94578**
0.099 mi.
523 ft. **Site 1 of 6 in cluster G**

Relative: **Higher**

Actual: **39 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	1992-02-24 00:00:00.0
Handler Name:	FRANK GHIGLIONE DBA RODGERS TRUCKING, CO
Handler Address:	14327 WASHINGTON AVE
Handler City,State,Zip:	SAN LEANDRO, CA 94578-0000
EPA ID:	CAL000058405
Contact Name:	ALAN OSOFSKY, SAFETY MGR.
Contact Address:	14327 WASHINGTON AVE
Contact City,State,Zip:	SAN LEANDRO, CA 94578-0000
Contact Telephone:	510-483-7000
Contact Fax:	510-483-8902
Contact Email:	ALANO@RODGERSTRUCKING.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 923
Mailing City,State,Zip:	SAN LEANDRO, CA 94577-0445
Owner Name:	FRANK GHIGLIONE
Owner Type:	Other
Operator Name:	ALAN OSOFSKY, SAFETY MGR.
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

FRANK GHIGLIONE DBA RODGERS TRUCKING, CO (Continued) **1024789053**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 15:41:47.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	FRANK GHIGLIONE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14327 WASHINGTON AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578-0000
Owner/Operator Telephone:	510-483-7000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ALAN OSOFSKY, SAFETY MGR.
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14327 WASHINGTON AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578-0000
Owner/Operator Telephone:	510-483-7000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

FRANK GHIGLIONE DBA RODGERS TRUCKING, CO (Continued) **1024789053**

Historic Generators:
Receive Date: 1992-02-24 00:00:00.0
Handler Name: FRANK GHIGLIONE DBA RODGERS TRUCKING, CO
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 48421
NAICS Description: USED HOUSEHOLD AND OFFICE GOODS MOVING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

G62 **RODGERS TRUCKING CO** **SWEEPS UST** **S101580479**
SE **14327 WASHINGTON AVE** **CA FID UST** **N/A**
< 1/8 **SAN LEANDRO, CA 94578** **WDS**
0.099 mi. **CIWQS**
523 ft. **Site 2 of 6 in cluster G** **CERS**

Relative: Higher

Actual: 39 ft.

SWEEPS UST:
Name: RODGERS TRUCKING CO
Address: 14327 WASHINGTON AVE
City: SAN LEANDRO
Status: Active
Comp Number: 633
Number: 1
Board Of Equalization: Not reported
Referral Date: 03-28-91
Action Date: 03-28-91
Created Date: 11-27-90
Owner Tank Id: Not reported
SWRCB Tank Id: 01-007-000633-000001
Tank Status: A
Capacity: 10000
Active Date: 11-27-90
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 2

Name: RODGERS TRUCKING CO
Address: 14327 WASHINGTON AVE
City: SAN LEANDRO
Status: Active

RODGERS TRUCKING CO (Continued) **S101580479**

Comp Number: 633
Number: 1
Board Of Equalization: Not reported
Referral Date: 03-28-91
Action Date: 03-28-91
Created Date: 11-27-90
Owner Tank Id: Not reported
SWRCB Tank Id: 01-007-000633-000002
Tank Status: A
Capacity: 10000
Active Date: 11-27-90
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 01002975
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4154837000
Mail To: Not reported
Mailing Address: 14327 WASHINGTON AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: SAN LEANDRO 94578
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

WDS:
Name: RODGERS TRUCKING COMPANY
Address: 14327 WASHINGTON AVE
City: SAN LEANDRO
Facility ID: San Francisco Bay 01I004768
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: 2
Facility Telephone: 5104837000
Facility Contact: DANIEL MCCARTHY
Agency Name: RODGERS TRUCKING COMPANY
Agency Address: 14327 WASHINGTON AVENUE
Agency City,St,Zip: SAN LEANDRO 94501

RODGERS TRUCKING CO (Continued) **S101580479**

Agency Contact:	DANIEL MCCARTHY
Agency Telephone:	5104837000
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:	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.

CIWQS:

Name:	RODGERS TRUCKING CO
Address:	14327 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94577
Agency:	Rodgers Trucking Co
Agency Address:	PO Box 923, San Leandro, CA 94577
Place/Project Type:	Industrial - Trucking, Except Local
SIC/NAICS:	4213
Region:	2
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 01I004768
NPDES Number:	CAS000001
Adoption Date:	01/01/1900
Effective Date:	04/07/1992
Termination Date:	04/30/2020
Expiration/Review Date:	01/01/1900
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.704832
Longitude:	-122.14317

RODGERS TRUCKING CO (Continued) **S101580479**

CERS:
- Name: RODGERS TRUCKING CO
- Address: 14327 WASHINGTON AVE
- City,State,Zip: SAN LEANDRO, CA 94577
- Site ID: 541141
- CERS ID: 253177
- CERS Description: Industrial Facility Storm Water

Violations:
- Site ID: 541141
- Site Name: Rodgers Trucking Co
- Violation Date: 05-09-2002
- Citation: 2014-0057-DWQ - Industrial General Permit
- Violation Description: SW - Deficient BMP Implementation
- Violation Notes: NO ANNUAL REPORT, NO SWPPP, NO MONITORING AND EVALUATION PLAN, AND STORM WATER SAMPLE EXCEEDED BENCHMARK LEVELS.
- Violation Division: Water Boards
- Violation Program: INDSTW
- Violation Source: SMARTS

Evaluation:
- Eval General Type: Compliance Evaluation Inspection
- Eval Date: 05-09-2002
- Violations Found: No
- Eval Type: Industrial Storm Water Compliance Evaluation
- Eval Notes: Not reported
- Eval Division: Water Boards
- Eval Program: INDSTW
- Eval Source: SMARTS

Enforcement Action:
- Site ID: 541141
- Site Name: Rodgers Trucking Co
- Site Address: 14327 WASHINGTON AVE
- Site City: SAN LEANDRO
- Site Zip: 94577
- Enf Action Date: 05-09-2002
- Enf Action Type: Notice of Violation
- Enf Action Description: Notice of Violation
- Enf Action Notes: NO ANNUAL REPORT, NO SWPPP, NO MONITORING AND EVALUATION PLAN, AND STORM WATER SAMPLE EXCEEDED BENCHMARK LEVELS.
- Enf Action Division: Water Boards
- Enf Action Program: INDSTW
- Enf Action Source: SMARTS

Affiliation:
- Affiliation Type Desc: Owner/Operator
- Entity Name: Rodgers Trucking Co
- Entity Title: Operator
- Affiliation Address: PO Box 923
- Affiliation City: San Leandro
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: 94577
- Affiliation Phone: Not reported

G63 **RODGERS TRUCKING CO.** **UST** **U003776606**
SE **14327 WASHINGTON AVE.** **N/A**
< 1/8 **SAN LEANDRO, CA 94578**
0.099 mi.
523 ft. **Site 3 of 6 in cluster G**

Relative:
Higher

Actual:
39 ft.

UST:

Name:	RODGERS TRUCKING CO.
Address:	14327 WASHINGTON AVE.
City,State,Zip:	SAN LEANDRO, CA 94578
Facility ID:	01-007-000633
Permitting Agency:	SAN LEANDRO, CITY OF
Latitude:	37.706546
Longitude:	-122.142435

Name:	RODGERS TRUCKING CO.
Address:	14327 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Facility ID:	01-007-100408
Permitting Agency:	San Leandro City
Latitude:	37.7052
Longitude:	-122.14378

G64 **RODGERS TRUCKING CO** **LUST** **S104241988**
SE **14327 WASHINGTON AVE** **CERS TANKS** **N/A**
< 1/8 **SAN LEANDRO, CA 94577** **Cortese**
0.099 mi. **HIST CORTESE**
523 ft. **Site 4 of 6 in cluster G** **NPDES**
CERS

Relative:
Higher

Actual:
39 ft.

LUST:

Name:	ROGERS TRUCKING
Address:	14327 WASHINGTON
City,State,Zip:	SAN LEANDRO, CA 94578-
Lead Agency:	SAN LEANDRO, CITY OF
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600102282
Global Id:	T0600102282
Latitude:	37.70441147
Longitude:	-122.142999
Status:	Completed - Case Closed
Status Date:	09/19/2011
Case Worker:	Not reported
RB Case Number:	01-2477
Local Agency:	Not reported
File Location:	Local Agency
Local Case Number:	01-2477
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Final Notice sent 4/21/2011 requesting soil and groundwater investigation. site will be referred to RWQCB if no response within 60 days.

LUST:

Global Id:	T0600102282
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND

RODGERS TRUCKING CO (Continued) **S104241988**

Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600102282
Action Type: RESPONSE
Date: 08/28/1998
Action: Soil and Water Investigation Report

Global Id: T0600102282
Action Type: ENFORCEMENT
Date: 04/21/2011
Action: 13267 Requirement

Global Id: T0600102282
Action Type: ENFORCEMENT
Date: 05/26/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0600102282
Action Type: Other
Date: 08/19/1998
Action: Leak Discovery

Global Id: T0600102282
Action Type: Other
Date: 08/19/1998
Action: Leak Stopped

Global Id: T0600102282
Action Type: Other
Date: 10/13/1998
Action: Leak Reported

LUST:
Global Id: T0600102282
Status: Open - Case Begin Date
Status Date: 08/19/1998

Global Id: T0600102282
Status: Open - Site Assessment
Status Date: 08/19/1998

Global Id: T0600102282
Status: Completed - Case Closed
Status Date: 04/18/2005

Global Id: T0600102282
Status: Open - Reopen Case
Status Date: 08/21/2007

Global Id: T0600102282
Status: Open - Inactive
Status Date: 08/22/2007

Global Id: T0600102282

RODGERS TRUCKING CO (Continued) **S104241988**

Status: Open - Inactive
Status Date: 04/21/2011

Global Id: T0600102282
Status: Completed - Case Closed
Status Date: 09/19/2011

LUST REG 2:
Region: 2
Facility Id: 01-2477
Facility Status: Leak being confirmed
Case Number: 01-2477
How Discovered: OM
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 8/19/1998
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CERS TANKS:
Name: ROBERT BATTINICH
Address: 14327 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 148732
CERS ID: 10158333
CERS Description: Underground Storage Tank

CORTESE:
Name: ROGERS TRUCKING
Address: 14327 WASHINGTON
City,State,Zip: SAN LEANDRO, CA
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600102282
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported

RODGERS TRUCKING CO (Continued) **S104241988**

Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: ROGERS TRUCKING
edr_fadd1: 14327 WASHINGTON
City,State,Zip: SAN LEANDRO, CA 94578
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-2477

NPDES:
Name: RODGERS TRUCKING CO
Address: 14327 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94577
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: 2 01I004768
Regulatory Measure Type: Industrial
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: Not reported
Discharge Name: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Status: Terminated
Status Date: 04/30/2020
Operator Name: Rodgers Trucking Co
Operator Address: PO Box 923
Operator City: San Leandro
Operator State: California
Operator Zip: 94577

NPDES as of 03/2018:
NPDES Number: CAS000001
Status: Active
Agency Number: 0
Region: 2
Regulatory Measure ID: 180773
Order Number: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place ID: Not reported
WDID: 2 01I004768
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 04/07/1992
Expiration Date Of Regulatory Measure: Not reported

RODGERS TRUCKING CO (Continued) **S104241988**

Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Rodgers Trucking Co
Discharge Address:	PO Box 923
Discharge City:	San Leandro
Discharge State:	California
Discharge Zip:	94577
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
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:	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:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported

RODGERS TRUCKING CO (Continued) **S104241988**

Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	180773
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 01I004768
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:	05/09/2008
Processed Date:	04/07/1992
Status:	Active
Status Date:	04/07/1992
Place Size:	1.5
Place Size Unit:	Acres
Contact:	John Ghiglione
Contact Title:	Not reported
Contact Phone:	510-483-7000
Contact Phone Ext:	Not reported
Contact Email:	johng@rodgerstrucking.com
Operator Name:	Rodgers Trucking Co
Operator Address:	PO Box 923
Operator City:	San Leandro
Operator State:	California
Operator Zip:	94577
Operator Contact:	John Ghiglione
Operator Contact Title:	Manager
Operator Contact Phone:	510-483-7000
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	johng@rodgerstrucking.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	510-483-7000
Emergency Phone Ext:	Not reported

RODGERS TRUCKING CO (Continued) **S104241988**

Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Leandro Creek
Certifier:	Frank Ghiglione
Certifier Title:	President
Certification Date:	04-JUN-15
Primary Sic:	4213-Trucking, Except Local
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	RODGERS TRUCKING CO
Address:	14327 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94577
Facility Status:	Terminated
NPDES Number:	CAS000001
Region:	2
Agency Number:	0
Regulatory Measure ID:	180773
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	2 01I004768
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/07/1992
Termination Date Of Regulatory Measure:	04/30/2020
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	PO Box 923
Discharge Name:	Rodgers Trucking Co
Discharge City:	San Leandro
Discharge State:	California
Discharge Zip:	94577
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001

RODGERS TRUCKING CO (Continued) **S104241988**

Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	180773
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01I004768
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/07/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Rodgers Trucking Co
Discharge Address:	PO Box 923
Discharge City:	San Leandro
Discharge State:	California
Discharge Zip:	94577
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
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:	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:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	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

RODGERS TRUCKING CO (Continued) **S104241988**

Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	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
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	180773
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 01I004768
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:	05/09/2008
Processed Date:	04/07/1992
Status:	Active
Status Date:	04/07/1992
Place Size:	1.5
Place Size Unit:	Acres
Contact:	John Ghiglione
Contact Title:	Not reported
Contact Phone:	510-483-7000
Contact Phone Ext:	Not reported
Contact Email:	johng@rodgerstrucking.com
Operator Name:	Rodgers Trucking Co
Operator Address:	PO Box 923
Operator City:	San Leandro
Operator State:	California
Operator Zip:	94577
Operator Contact:	John Ghiglione
Operator Contact Title:	Manager
Operator Contact Phone:	510-483-7000
Operator Contact Phone Ext:	Not reported

RODGERS TRUCKING CO (Continued) **S104241988**

Operator Contact Email:	johng@rodgerstrucking.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	510-483-7000
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Leandro Creek
Certifier:	Frank Ghiglione
Certifier Title:	President
Certification Date:	04-JUN-15
Primary Sic:	4213-Trucking, Except Local
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CERS:

Name:	ROBERT BATTINICH
Address:	14327 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	148732
CERS ID:	10158333
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	148732
Site Name:	Robert Battinich
Violation Date:	06-02-2017
Citation:	23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i)
Violation Description:	Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.).
Violation Notes:	Returned to compliance on 06/05/2017. Annual UST monitoring cert

RODGERS TRUCKING CO (Continued) **S104241988**

	overdue 4 days
Violation Division:	San Leandro City
Violation Program:	UST
Violation Source:	CERS
Site ID:	148732
Site Name:	Robert Battinich
Violation Date:	06-06-2014
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 06/06/2014. Hazardous waste label was faded and unreadable. It was filled out before the end of the inspection.
Violation Division:	San Leandro City
Violation Program:	HW
Violation Source:	CERS
Site ID:	148732
Site Name:	Robert Battinich
Violation Date:	06-30-2020
Citation:	HSC 6.7 25290.1(c),25290.2(c),25291(a)(2),2529.1(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c),25290.2(c),25291(a)(2),2529.1(e)
Violation Description:	Failure to maintain secondary containment (e.g., failure of secondary containment testing).
Violation Notes:	Diesel line between STP and Disp. 1 failed
Violation Division:	San Leandro City
Violation Program:	UST
Violation Source:	CERS
Site ID:	148732
Site Name:	Robert Battinich
Violation Date:	06-04-2018
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 p.s.i.g. and restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes:	Returned to compliance on 06/04/2018. 87 Unleaded LLD failed, adjusted, and tested OK
Violation Division:	San Leandro City
Violation Program:	UST
Violation Source:	CERS
Site ID:	148732
Site Name:	Robert Battinich
Violation Date:	06-05-2019
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release

RODGERS TRUCKING CO (Continued) **S104241988**

of 3.0 gallons per hour leak at 10 pounds per square inch and restrict or shut off the flow of product through the piping when a leak is detected.

Violation Notes: Returned to compliance on 06/05/2019. 87 LLD failed 1st test; adjusted & passed; next failure = LLD replacement
Violation Division: San Leandro City
Violation Program: UST
Violation Source: CERS

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-01-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: The hazardous waste area looked okay. All containers were properly marked and the hazardous waste labels including generation start dates were filled out. Manifest, receipts, and other records are being kept. No violations were observed.
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-01-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Their last CERS was on 9/3/14; next annual due by 9/3/15. No changes. Inventory okay. They were instructed to include all elements in their next CERS submittal. No violations were observed.
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-01-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Their were two unusual alarms in past year; diesel sump & gasoline sump; 11/30/14 & 2/8/15 respectively; both noted on DO log; both were rain water in sump. All sensors properly placed at the beginning and the end of the inspection; all sensors tested okay; fail safe, sensor out, and e-stop all tested okay; all sumps and UDCs were dry; both line leak detectors tested okay; DO log okay; UST forms on CERS. No violations were observed.
Eval Division: San Leandro City
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-01-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: (1) All sensors were properly positioned at the beginning and the end of the inspection. (2) All sensors tested OK. (3) All LLDs tested OK. (4) All sumps and UDCs were dry and clean. (4) Fail safe, sensor out, and e-stop tested OK. (5) One unusual alarm in the past year on 1/19/16. It was noted on the DO and maintenance logs. It was water

RODGERS TRUCKING CO (Continued) **S104241988**

intrusion into the sump. (6) DO log complete with all monthly inspection reports along with printed set ups and alarm histories. Training logged. No violations were observed.
Eval Division: San Leandro City
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-01-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: The hazardous waste area looked clean and orderly. All containers were in good condition, labeled properly including generation start dates, and properly sealed. Secondary containment was in good condition and it was dry within it. They are keeping manifest copies, receipts and associated paperwork indefinitely. No violations were observed.
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-01-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Their last full CERS submittal was on 9/3/15. The submittal was accurate. They are fully aware of CERS submittal requirements. No violations were observed.
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-04-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: The hazardous waste area remains unchanged. It is covered and has secondary containment. The secondary containment was clean and dry. All containers in it were in good condition, sealed, and labeled. They continue to keep their hazardous waste records indefinitely and they were readily available. No violations were observed.
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-04-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Their last CERS HMBP submittal on on 8/29/17 and the next annual is due by 8/29/17. This was gone over with the facility contact. Their HMBP is fully developed and accurate. No discrepancies were identified.
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection

RODGERS TRUCKING CO (Continued) **S104241988**

Eval Date:	06-04-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	(1) All sumps and UDCs were clean and dry. (2) All sensors were properly positioned at the beginning and the end of the inspection. (3) All sensors tested OK. (4) Fail safe and sensor out tested OK. (5) All spill buckets tested OK. (6) The diesel line leak detector tested OK. (7) The unleaded line leak detector failed its initial test. It was adjusted once and it then tested OK. (8) L-2 diesel annular sensor alarms, 3 total, on 9/27/17. Sensor was replaced and tested OK and alarm cleared. It was noted on monthly DO report along with fix. (9) L-6 unleaded STP alarms on 4/6/18, 3/1/18, and 1/8/18. All due to rainwater intrusion. Water removed and alarms cleared. All alarms were noted on monthly DO report along with fix. (10) DO facility training documented. (11) All monthly DO reports present with attached alarm histories. No other UST deficiencies were observed.
Eval Division:	San Leandro City
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-05-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	The hazardous waste are remains unchanged. It is covered, has secondary containment, and is clean and dry. All containers were in good condition and labeled. The labels are getting worn though. They are retaining their hazardous waste records indefinitely. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-05-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Their last CERS HMBP submittal was on 8/25/16. They also made two CERS UST submittals on 9/22/16 and 10/20/16. The HMBP submittal is accurate. They have been making CERS submittals since 6/9/13. No HMBP violations were observed.
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-05-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	(1) Their last annual UST monitoring system certification was done on 6/1/16. This annual UST monitoring system certification was done on 6/5/17 and is overdue by four days. (2) Spill buckets verified to hold at least 5 gallons & tested Ok. (4) All sensors properly positioned at beginning and end of inspection. (5) Drop tube flapper valves OK. (6) All sensors tested OK. (7) Both line leak detectors tested OK. (8) Diesel annular sensor alarms on 5/4/17 and 5/1/17. Maintenance response found condensation. Dried and cleared. Note: tank is

RODGERS TRUCKING CO (Continued) **S104241988**

fiberglass. Noted on DO record and maintenance log. (9) Fail safe, sensor out, and e-stop tested OK. (10) All DO reports present along with histories. Training documented. (11) All sumps and UDCs clean and dry. (12) Secondary containment testing with no violations. Next due 6/5/20. No other violations were observed.

Eval Division: San Leandro City
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-05-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: The hazardous waste area looked okay. It is covered and the secondary containment area was clean and dry. All containers were in good condition, sealed, and labeled. Hazardous waste records are kept indefinitely. No violations were observed.
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-05-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Their last full CERS HMBP submittal was on 9/18/18. It was full and complete. Their next submittal is due by 9/18/19 and was documented on the 6/5/19 inspection report. No HMBP violations were observed.
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-05-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: (1) All sumps and UDCs were clean and dry. (2) All sensors were properly positioned at the beginning and the end of the inspection. (3) All sensors tested OK. (4) The unleaded line leak detector needed adjustment to pass. The facility contact was told that an additional failure in the future would require the LLD to be replaced. The diesel LLD passed on its first attempt. (5) Both spill buckets passed their tests and both verified to hold 5 gallons. (6) The overfill test was done on this day. Both USTs use flapper valves. The diesel flapper actuated at 93% full and the unleaded actuated by 95% full. (7) The only unusual alarms in the past were all with L6, unleaded STP sump. They were all caused by rainwater intrusion and were all documented with fix on applicable DO monthly report. (8) DO facility training documented. (9) All DO monthly inspection records since 1/26/16. (10) Fail safe and sensor out tested OK. (11) No UST violations.
Eval Division: San Leandro City
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-06-2014
Violations Found: No

RODGERS TRUCKING CO (Continued) **S104241988**

Eval Type:	Routine done by local agency
Eval Notes:	Fully up on CERS. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-06-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Sensors placed properly at the beginning and the end of the monitoring system cert. All sensors tested OK. LLDs tested OK. Fail safe, sensor out, and e-stop all tested OK. All sumps and UDCs were dry. Secondary containment tested also with all results OK. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-06-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Hazardous waste label was faded and unreadable. It was filled out before the end of the inspection. No other violations were observed.
Eval Division:	San Leandro City
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-30-2020
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	All hazardous wastes have been removed from the site. The hazardous waste tanks were empty and were marked empty. The main hazardous waste area was very clean with no spillage within the bermed secondary containment area. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-30-2020
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Their last CERS HMBP submittal was done on 8/28/19. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-30-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	(1) All sumps and UDCs were clean and dry. (2) All sensors were properly positioned at the beginning and the end of the inspection.

RODGERS TRUCKING CO (Continued) **S104241988**

(3) All sensors tested OK and they were tagged. (4) Fail safe and sensor out tested OK. (5) The line leak detectors tested OK. (6) Both spill buckets passed their tests and contain five gallons of liquid. (7) The first overfill test was done on 6/5/19 and the next test is due by 10/13/21. (8) The only unusual alarms in the past year were L6, unleaded STP sump, 12/7/19 @ 0345 & 11/30/19 @ 1148; water intrusion, noted on DO report along with repair. (9) DO facility training was documented. (10) DO book OK; all records present since 1/26/16. (11) Secondary containment testing done today. One malfunction; diesel line from diesel tank to front dispenser failed - it would not hold vacuum. No other violations were observed.

Eval Division: San Leandro City
Eval Program: UST
Eval Source: CERS

Enforcement Action:
Site ID: 148732
Site Name: Robert Battinich
Site Address: 14327 WASHINGTON AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 06-02-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 148732
Site Name: Robert Battinich
Site Address: 14327 WASHINGTON AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 06-04-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 148732
Site Name: Robert Battinich
Site Address: 14327 WASHINGTON AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 06-05-2019
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 148732
Site Name: Robert Battinich

RODGERS TRUCKING CO (Continued) **S104241988**

Site Address: 14327 WASHINGTON AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 06-06-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 148732
Site Name: Robert Battinich
Site Address: 14327 WASHINGTON AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 06-30-2020
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: UST
Enf Action Source: CERS

Coordinates:
Site ID: 148732
Facility Name: Robert Battinich
Env Int Type Code: UST
Program ID: 10158333
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.705200
Longitude: -122.143780

Affiliation:
Affiliation Type Desc: Legal Owner
Entity Name: Robert Battinich
Entity Title: Not reported
Affiliation Address: 19360 Parsons Avenue
Affiliation City: Castro Valley
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94546
Affiliation Phone: (510) 393-3939

Affiliation Type Desc: UST Tank Owner
Entity Name: Robert Battinich
Entity Title: Not reported
Affiliation Address: 19360 Parsons Avenue
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94546
Affiliation Phone: (510) 393-3939

Affiliation Type Desc: CUPA District

RODGERS TRUCKING CO (Continued) **S104241988**

Entity Name:	San Leandro City
Entity Title:	Not reported
Affiliation Address:	835 East 14th Street
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	(510) 577-3401
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Alan Osofsky
Entity Title:	Safety Mgr.
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 483-7000
Affiliation Type Desc:	Environmental Contact
Entity Name:	Peng Leong
Entity Title:	Not reported
Affiliation Address:	3300 POWELL ST STE 109
Affiliation City:	EMERYVILLE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94608-1558
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Robert Battinich
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Robert Battinich
Entity Title:	Not reported
Affiliation Address:	19360 Parsons Avenue
Affiliation City:	Castro Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94546
Affiliation Phone:	(510) 393-3939
Affiliation Type Desc:	UST Tank Operator
Entity Name:	Robert Battinich
Entity Title:	Not reported
Affiliation Address:	19360 Parsons Avenue
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94546

RODGERS TRUCKING CO (Continued) **S104241988**

Affiliation Phone:	(510) 393-3939
Affiliation Type Desc:	Document Preparer
Entity Name:	Peng Leong
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	19360 Parsons Avenue
Affiliation City:	Castro Valley
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94546
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Peng Leong
Entity Title:	Assistant
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Robert Battinich
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 393-3939
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	Robert Battinich
Entity Title:	Not reported
Affiliation Address:	19360 Parsons Avenue
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94546
Affiliation Phone:	(510) 393-3939
Name:	ROGERS TRUCKING
Address:	14327 WASHINGTON
City,State,Zip:	SAN LEANDRO, CA 94578-
Site ID:	198808

RODGERS TRUCKING CO (Continued) **S104241988**

CERS ID: T0600102282
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

E65 **SAN LEANDRO-AMR** **AST** **A100176616**
ENE **642 143RD ST** **N/A**
< 1/8 **SAN LEANDRO, CA**
0.112 mi.
592 ft. **Site 2 of 4 in cluster E**

Relative: **Higher**
Actual: **42 ft.**

AST:
Name: SAN LEANDRO-AMR
Address: 642 143RD ST
City/Zip: SAN LEANDRO,
Certified Unified Program Agencies: San Leandro
Owner: LAIDLAW EDUCATION SERVICES
Total Gallons: 12,897
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

E66 **ENVIRONMENTAL SAMPLING SUPPLY** **RCRA NonGen / NLR** **1025834890**
ENE **640 143RD AVE** **CAC003014473**
< 1/8 **SAN LEANDRO, CA 94578**
0.112 mi.
592 ft. **Site 3 of 4 in cluster E**

Relative: **Higher**
Actual: **42 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2019-05-10 00:00:00.0
Handler Name:	ENVIRONMENTAL SAMPLING SUPPLY
Handler Address:	640 143RD AVE
Handler City,State,Zip:	SAN LEANDRO, CA 94578
EPA ID:	CAC003014473
Contact Name:	MARK VENNEMEYER
Contact Address:	640 143RD AVE
Contact City,State,Zip:	SAN LEANDRO, CA 94578
Contact Telephone:	925-366-1847
Contact Fax:	Not reported
Contact Email:	VENNEMEYERM@TESTAMERICAINC.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	640 143RD AVE
Mailing City,State,Zip:	SAN LEANDRO, CA 94578
Owner Name:	EUROFINS-TESTAMERICA BURNS
Owner Type:	Other
Operator Name:	MARK VENNEMEYER
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

ENVIRONMENTAL SAMPLING SUPPLY (Continued) **1025834890**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-06-27 11:34:59.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EUROFINS-TESTAMERICA BURNS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4101 SHUFFEL ST NW
Owner/Operator City,State,Zip:	NORTH CANTON, OH 44720
Owner/Operator Telephone:	330-497-9396
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MARK VENNEMEYER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	640 143RD AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578
Owner/Operator Telephone:	925-366-1847
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

ENVIRONMENTAL SAMPLING SUPPLY (Continued) **1025834890**

Historic Generators:
- Receive Date: 2019-05-10 00:00:00.0
- Handler Name: ENVIRONMENTAL SAMPLING SUPPLY
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 453998
- NAICS Description: ALL OTHER MISCELLANEOUS STORE RETAILERS (EXCEPT TOBACCO STORES)

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

E67 **ENVIRONMENTAL SAMPLING SUPPLY** **CERS HAZ WASTE** **S121759732**
ENE **640 143RD AVE** **CERS** **N/A**
< 1/8 **SAN LEANDRO, CA 94578** **HWTS**
0.112 mi.
592 ft. **Site 4 of 4 in cluster E**

Relative: Higher
Actual: 42 ft.

CERS HAZ WASTE:
- Name: ENVIRONMENTAL SAMPLING SUPPLY
- Address: 640 143RD AVE
- City,State,Zip: SAN LEANDRO, CA 94578
- Site ID: 28493
- CERS ID: 10451881
- CERS Description: Hazardous Waste Generator

CERS:
- Name: ENVIRONMENTAL SAMPLING SUPPLY
- Address: 640 143RD AVE
- City,State,Zip: SAN LEANDRO, CA 94578
- Site ID: 28493
- CERS ID: 10451881
- CERS Description: Chemical Storage Facilities

Violations:
- Site ID: 28493
- Site Name: Environmental Sampling Supply
- Violation Date: 01-31-2017
- Citation: HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
- Violation Description: Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.

ENVIRONMENTAL SAMPLING SUPPLY (Continued) **S121759732**

Violation Notes: Returned to compliance on 03/13/2017. Submit HMBP to CERS
Violation Division: San Leandro City
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-31-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-31-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Submit HMBP to CERS
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-10-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-10-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 28493
Site Name: Environmental Sampling Supply
Site Address: 640 143RD AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 01-31-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: HMRRP
Enf Action Source: CERS

ENVIRONMENTAL SAMPLING SUPPLY (Continued) **S121759732**

Coordinates:

Site ID:	28493
Facility Name:	Environmental Sampling Supply
Env Int Type Code:	HMBP
Program ID:	10451881
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	37.706820
Longitude:	-122.141980

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	San Leandro City
Entity Title:	Not reported
Affiliation Address:	835 East 14th Street
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	(510) 577-3401

Affiliation Type Desc:	Document Preparer
Entity Name:	Patrick Culley
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Environmental Sampling Supply
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(800) 233-8425

Affiliation Type Desc:	Property Owner
Entity Name:	Acquitsapace Sisters LLC & Acquitsapace John Etal
Entity Title:	Not reported
Affiliation Address:	2930 Avalon Ave
Affiliation City:	Berkeley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94705
Affiliation Phone:	(510) 732-9229

Affiliation Type Desc:	Identification Signer
Entity Name:	Andrew Falcon
Entity Title:	President
Affiliation Address:	Not reported
Affiliation City:	Not reported

ENVIRONMENTAL SAMPLING SUPPLY (Continued) **S121759732**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	Environmental Sampling Supply
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Patrick Culley
Entity Title:	Not reported
Affiliation Address:	640 143rd Avenue
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94578
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	640 143rd Ave
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94578
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Eurofins Technologies US Holdings, Inc
Entity Title:	Not reported
Affiliation Address:	2200 Rittenhouse Street
Affiliation City:	Des Moines
Affiliation State:	IA
Affiliation Country:	United States
Affiliation Zip:	50321
Affiliation Phone:	(515) 265-1461

HWTS:

Name:	ENVIRONMENTAL SAMPLING SUPPLY
Address:	640 143RD AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 94578
EPA ID:	CAC003014473
Inactive Date:	08/09/2019
Create Date:	05/10/2019
Last Act Date:	08/10/2019
Mailing Name:	Not reported
Mailing Address:	640 143RD AVE

ENVIRONMENTAL SAMPLING SUPPLY (Continued) **S121759732**

Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN LEANDRO, CA 94578
Owner Name:	EUROFINS-TESTAMERICA
Owner Address:	4101 SHUFFEL ST NW
Owner Address 2:	Not reported
Owner City,State,Zip:	NORTH CANTON, OH 44720
Contact Name:	MARK VENNEMEYER
Contact Address:	640 143RD AVE
Contact Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 94578

NAICS:

EPA ID:	CAC003014473
Create Date:	2019-05-10 08:10:09.537
NAICS Code:	453998
NAICS Description:	All Other Miscellaneous Store Retailers (except Tobacco Stores)
Issued EPA ID Date:	2019-05-10 08:10:09.55300
Inactive Date:	2019-08-09 08:10:09.52000
Facility Name:	ENVIRONMENTAL SAMPLING SUPPLY
Facility Address:	640 143RD AVE
Facility Address 2:	Not reported
Facility City:	SAN LEANDRO
Facility County:	Not reported
Facility State:	CA
Facility Zip:	94578

G68 **STEELFORM CONTRACTING COMPANY** **HIST UST** **U001598529**
SE **14340 WASHINGTON AVE** **N/A**
< 1/8 **SAN LEANDRO, CA 94578**
0.113 mi.
597 ft. **Site 5 of 6 in cluster G**

Relative:
Higher

Actual:
39 ft.

HIST UST:

Name:	STEELFORM CONTRACTING COMPANY
Address:	14340 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
File Number:	0003639B
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0003639B.pdf
Region:	STATE
Facility ID:	00000009725
Facility Type:	Other
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	4153572432
Owner Name:	STEELFORM CONTRACTING COMPANY
Owner Address:	14340 WASHINGTON AVE.
Owner City,St,Zip:	SAN LEANDRO, CA 94578
Total Tanks:	0002
Tank Num:	001
Container Num:	1
Year Installed:	1982
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor

STEELFORM CONTRACTING COMPANY (Continued) **U001598529**

Tank Num:	002
Container Num:	2
Year Installed:	1982
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor

Click here for Geo Tracker PDF:

G69 **STEELFORM CONTRACTING COMPANY** **LUST** **S101629602**
SE **14340 WASHINGTON AVE** **SWEEPS UST** **N/A**
< 1/8 **SAN LEANDRO, CA 94578** **CA FID UST**
0.113 mi. **Cortese**
597 ft. **Site 6 of 6 in cluster G** **HIST CORTESE**
CERS

Relative:
Higher

Actual:
39 ft.

LUST:

Name:	STEELFORM CONTRACTING COMPANY
Address:	14340 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Lead Agency:	SAN LEANDRO, CITY OF
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101315
Global Id:	T0600101315
Latitude:	37.705826
Longitude:	-122.142501
Status:	Completed - Case Closed
Status Date:	08/21/2000
Case Worker:	UNK
RB Case Number:	01-1424
Local Agency:	SAN LEANDRO, CITY OF
File Location:	Not reported
Local Case Number:	01-1424
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0600101315
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0600101315
Contact Type:	Local Agency Caseworker
Contact Name:	UNK
Organization Name:	SAN LEANDRO, CITY OF
Address:	Not reported
City:	r2 UNKNOWN
Email:	Not reported
Phone Number:	Not reported

STEELFORM CONTRACTING COMPANY (Continued) **S101629602**

LUST:

Global Id:	T0600101315
Action Type:	RESPONSE
Date:	01/21/1994
Action:	Other Report / Document
Global Id:	T0600101315
Action Type:	RESPONSE
Date:	03/23/1988
Action:	Monitoring Report - Semi-Annually
Global Id:	T0600101315
Action Type:	RESPONSE
Date:	03/18/1987
Action:	Monitoring Report - Semi-Annually
Global Id:	T0600101315
Action Type:	RESPONSE
Date:	04/10/1990
Action:	Unauthorized Release Form
Global Id:	T0600101315
Action Type:	RESPONSE
Date:	07/16/1998
Action:	Unauthorized Release Form
Global Id:	T0600101315
Action Type:	RESPONSE
Date:	07/29/1986
Action:	Well Installation Report
Global Id:	T0600101315
Action Type:	ENFORCEMENT
Date:	08/10/2000
Action:	Closure/No Further Action Letter - #File No. 2198.17
Global Id:	T0600101315
Action Type:	ENFORCEMENT
Date:	08/10/2000
Action:	Closure Summary
Global Id:	T0600101315
Action Type:	ENFORCEMENT
Date:	05/03/2000
Action:	Other Report
Global Id:	T0600101315
Action Type:	Other
Date:	08/22/1986
Action:	Leak Discovery
Global Id:	T0600101315
Action Type:	Other
Date:	08/22/1986
Action:	Leak Stopped
Global Id:	T0600101315

STEELFORM CONTRACTING COMPANY (Continued) **S101629602**

Action Type: Other
Date: 08/22/1986
Action: Leak Reported

LUST:
Global Id: T0600101315
Status: Open - Case Begin Date
Status Date: 05/15/1986

Global Id: T0600101315
Status: Open - Site Assessment
Status Date: 05/15/1986

Global Id: T0600101315
Status: Open - Site Assessment
Status Date: 07/07/1986

Global Id: T0600101315
Status: Completed - Case Closed
Status Date: 08/21/2000

LUST REG 2:
Region: 2
Facility Id: 01-1424
Facility Status: Case Closed
Case Number: 01-1424
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 5/15/1986
Preliminary Site Assesment Began: 7/7/1986
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:
Name: STEELFORM CONTRACTING COMPANY
Address: 14340 WASHINGTON AVE
City: SAN LEANDRO
Status: Active
Comp Number: 9725
Number: 9
Board Of Equalization: 44-001070
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: 1
SWRCB Tank Id: 01-007-009725-000001
Tank Status: A
Capacity: 2000
Active Date: 07-01-85
Tank Use: M.V. FUEL

STEELFORM CONTRACTING COMPANY (Continued) **S101629602**

STG: P
Content: DIESEL
Number Of Tanks: 2

Name: STEELFORM CONTRACTING COMPANY
Address: 14340 WASHINGTON AVE
City: SAN LEANDRO
Status: Active
Comp Number: 9725
Number: 9
Board Of Equalization: 44-001070
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: 2
SWRCB Tank Id: 01-007-009725-000002
Tank Status: A
Capacity: 2000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 01001538
Regulated By: UTNKA
Regulated ID: 00009725
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4153572432
Mail To: Not reported
Mailing Address: 14340 WASHINGTON AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: SAN LEANDRO 94578
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

CORTESE:
Name: STEELFORM CONTRACTING COMPANY
Address: 14340 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600101315
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported

STEELFORM CONTRACTING COMPANY (Continued) **S101629602**

Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	STEELFORM CONTRACTING COM
edr_fadd1:	14340 WASHINGTON
City,State,Zip:	SAN LEANDRO, CA
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1424

CERS:

Name:	STEELFORM CONTRACTING COMPANY
Address:	14340 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	212960
CERS ID:	T0600101315
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	UNK - SAN LEANDRO, CITY OF
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	r2 UNKNOWN
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

70
SW
< 1/8
0.113 mi.
599 ft.

Relative:
Lower

Actual:
36 ft.

S&S BUILDING SUPPLY
701 FREMONT
SAN LEANDRO, CA 94577

LUST **S101580123**
Alameda County CS **N/A**
SWEEPS UST
CA FID UST
CHMIRS
Cortese
HIST CORTESE
CERS

LUST:

Name:	S&S BUILDING SUPPLY
Address:	701 FREMONT
City,State,Zip:	SAN LEANDRO, CA 94577
Lead Agency:	ALAMEDA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101170
Global Id:	T0600101170
Latitude:	37.70521
Longitude:	-122.146899
Status:	Completed - Case Closed
Status Date:	01/11/1999
Case Worker:	Not reported
RB Case Number:	01-1273
Local Agency:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	RO0000826
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0600101170
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600101170
Action Type:	Other
Date:	02/10/1988
Action:	Leak Reported

LUST:

Global Id:	T0600101170
Status:	Open - Case Begin Date
Status Date:	02/10/1988

Global Id:	T0600101170
Status:	Completed - Case Closed
Status Date:	01/11/1999

LUST REG 2:

Region:	2

S&S BUILDING SUPPLY (Continued) **S101580123**

Facility Id: 01-1273
Facility Status: Case Closed
Case Number: 4535
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 3/30/1993
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Name: S&S BUILDING SUPPLY
Address: 701 FREMONT AVE
City,State,Zip: SAN LEANDRO, CA 94577
Status: Case Closed
Record Id: RO0000826
PE: 5602
Facility Status: Case Closed
Latitude: 37.703468941
Longitude: -122.14553937

SWEEPS UST:
Name: S & S BUILDING SUPPLY INC
Address: 701 FREMONT AVE
City: SAN LEANDRO
Status: Not reported
Comp Number: 3
Number: Not reported
Board Of Equalization: 44-001026
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-007-000003-000001
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 2

Name: S & S BUILDING SUPPLY INC
Address: 701 FREMONT AVE
City: SAN LEANDRO
Status: Not reported
Comp Number: 3
Number: Not reported
Board Of Equalization: 44-001026
Referral Date: Not reported
Action Date: Not reported

S&S BUILDING SUPPLY (Continued) **S101580123**

Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-007-000003-000002
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 01001390
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: 701 FREMONT AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: SAN LEANDRO 94577
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

CHMIRS:
Name: Not reported
Address: 701 FREMONT
City,State,Zip: SAN LEANDRO, CA 94545
OES Incident Number: 2-6610
OES notification: 12/05/2002
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

S&S BUILDING SUPPLY (Continued) **S101580123**

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:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2002
Agency:	PG&E
Incident Date:	12/4/200212:00:00 AM
Admin Agency:	San Leandro Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Merchant/Business
E Date:	Not reported
Substance:	mineral oil, non-PCB
Gallons:	80
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#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:	Truck turning a corner took out a pole with a transformer.

CORTESE:

Name:	S&S BUILDING SUPPLY
Address:	701 FREMONT
City,State,Zip:	SAN LEANDRO, CA 94577
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0600101170
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported

S&S BUILDING SUPPLY (Continued) **S101580123**

Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	S & S BUILDING SUPPLY
edr_fadd1:	701 FREMONT
City,State,Zip:	SAN LEANDRO, CA 94577
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1273

CERS:

Name:	BEACON SALES ACQUISITION, INC. DBA ACOUSTICAL MATERIAL SERVICES
Address:	701 FREMONT AVE
City,State,Zip:	SAN LEANDRO, CA 94577
Site ID:	2535
CERS ID:	10443682
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	2535
Site Name:	Beacon Sales Acquisition, Inc. dba Acoustical Material Services
Violation Date:	08-11-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 08/11/2017. ER updated and resubmitted to CERS
Violation Division:	San Leandro City
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	2535
Site Name:	Beacon Sales Acquisition, Inc. dba Acoustical Material Services
Violation Date:	08-11-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 08/11/2017. Map updated and resubmitted to CERS
Violation Division:	San Leandro City

S&S BUILDING SUPPLY (Continued) **S101580123**

Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-11-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Minor violations found during the inspection: 1. Map submitted to CERS did not include all the required elements, 2. ER Plan was incorrect. It listed the wrong nearest hospital name and phone number. NOVs abated at time of inspection.
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-29-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 2535
Site Name: Beacon Sales Acquisition, Inc. dba Acoustical Material Services
Site Address: 701 FREMONT AVE
Site City: SAN LEANDRO
Site Zip: 94577
Enf Action Date: 08-11-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 2535
Facility Name: Beacon Sales Acquisition, Inc. dba Acoustical Material Services
Env Int Type Code: HMBP
Program ID: 10443682
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.705140
Longitude: -122.146840

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Leandro City
Entity Title: Not reported
Affiliation Address: 835 East 14th Street
Affiliation City: San Leandro

S&S BUILDING SUPPLY (Continued) **S101580123**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	(510) 577-3401
Affiliation Type Desc:	Environmental Contact
Entity Name:	Matt Ross
Entity Title:	Not reported
Affiliation Address:	7025 E Slauson Avenue
Affiliation City:	Commerce
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90040
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Yolanda Inda
Entity Title:	Branch Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	FOUNDATION BUILDING MATERIALS, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Allied Building Products - AMS
Entity Title:	Not reported
Affiliation Address:	billhab@outlook.com
Affiliation City:	WOODINVILLE
Affiliation State:	WA
Affiliation Country:	United States
Affiliation Zip:	98072
Affiliation Phone:	(206) 321-4767
Affiliation Type Desc:	Operator
Entity Name:	ACOUSTICAL MATERIAL SERVICES
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 614-8883
Affiliation Type Desc:	Document Preparer
Entity Name:	Bill Habenicht

S&S BUILDING SUPPLY (Continued) **S101580123**

Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Beacon Sales Acquisition, Inc.
Entity Title:	Not reported
Affiliation Address:	505 Huntmar Park Drive, Suite 300
Affiliation City:	Herndon
Affiliation State:	VA
Affiliation Country:	United States
Affiliation Zip:	20170
Affiliation Phone:	(916) 379-9776
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	701 Fremont Avenue
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	Not reported
Name:	S&S BUILDING SUPPLY
Address:	701 FREMONT
City,State,Zip:	SAN LEANDRO, CA 94577
Site ID:	194978
CERS ID:	T0600101170
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

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71 **REVOLT RECYCLING LLC** **RCRA NonGen / NLR** **1016955166**
ENE **657 143RD AVE** **CAR000249029**
< 1/8 **SAN LEANDRO, CA 94578**
0.114 mi.
600 ft.

Relative: **Higher**

Actual: **42 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2014-09-08 00:00:00.0
Handler Name:	REVOLT RECYCLING LLC	
Handler Address:		657 143RD AVE

REVOLT RECYCLING LLC (Continued) **1016955166**

Handler City,State,Zip:	SAN LEANDRO, CA 94578
EPA ID:	CAR000249029
Contact Name:	CHARLES F LANDMESSER
Contact Address:	657 143RD AVE
Contact City,State,Zip:	SAN LEANDRO, CA 94578
Contact Telephone:	510-352-2565
Contact Fax:	510-352-3914
Contact Email:	CHARLIE@REVOLTRECYCLING.COM
Contact Title:	OPS MGR
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	657 143RD AVE
Mailing City,State,Zip:	SAN LEANDRO, CA 94578
Owner Name:	RUSTY SNOW
Owner Type:	Private
Operator Name:	SNOW PROPERTIES
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	Yes
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No

REVOLT RECYCLING LLC (Continued) **1016955166**

TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2014-09-08 18:33:35.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SNOW PROPERTIES
Legal Status:	Private
Date Became Current:	1998-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	RUSTY SNOW
Legal Status:	Private
Date Became Current:	1998-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2301 CEDAR ST
Owner/Operator City,State,Zip:	BERKELEY, CA 94708
Owner/Operator Telephone:	925-254-3483
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2014-09-08 00:00:00.0
Handler Name: REVOLT RECYCLING LLC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No

REVOLT RECYCLING LLC (Continued) **1016955166**

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 562119
NAICS Description: OTHER WASTE COLLECTION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

H72 **KP LLC** **RCRA-SQG 1000223434**
NNW **13951 WASHINGTON AVE** **FINDS CAD982524357**
< 1/8 **SAN LEANDRO, CA 94578** **ECHO**
0.115 mi. **EMI**
609 ft. **Site 1 of 6 in cluster H**

Relative: Higher
Actual: 43 ft.

RCRA-SQG:
Date Form Received by Agency: 2015-08-24 00:00:00.0
Handler Name: KP LLC
Handler Address: 13951 WASHINGTON AVE
Handler City,State,Zip: SAN LEANDRO, CA 94578-9961
EPA ID: CAD982524357
Contact Name: WILLIAM E KNIGHT
Contact Address: WASHINGTON AVE
Contact City,State,Zip: SAN LEANDRO, CA 94578-9961
Contact Telephone: 510-351-5400
Contact Fax: Not reported
Contact Email: BKNIGHT@KCORP.COM
Contact Title: MANAGER
EPA Region: 09
Land Type: County
Federal Waste Generator Description: Small Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: WASHINGTON AVE
Mailing City,State,Zip: SAN LEANDRO, CA 94578-9961
Owner Name: KAYP INVESTCO LLC
Owner Type: Private
Operator Name: KP LLC
Operator Type: Private

KP LLC (Continued) **1000223434**

Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2015-10-01 12:59:17.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

KP LLC (Continued) **1000223434**

Hazardous Waste Summary:
Waste Code: D000
Waste Description: Not Defined

Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D006
Waste Description: CADMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D018
Waste Description: BENZENE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: KP LLC
Legal Status: Private
Date Became Current: 2014-05-07 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: KP CORPORATION
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 12647 ALCOSTA BLVD STE 425
Owner/Operator City,State,Zip: SAN RAMON, CA 94583
Owner/Operator Telephone: 925-543-5200
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: KAYP INVESTCO LLC
Legal Status: Private
Date Became Current: 2014-05-07 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 13951 WASHINGTON AVE

KP LLC (Continued) **1000223434**

Owner/Operator City,State,Zip: SAN LEANDRO, CA 94578
Owner/Operator Telephone: 510-351-5400
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NOT REQUIRED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2000-04-04 00:00:00.0
Handler Name: KP CORPORATION
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2015-08-24 00:00:00.0
Handler Name: KP LLC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 323111
NAICS Description: COMMERCIAL GRAVURE PRINTING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

KP LLC (Continued) **1000223434**

FINDS:
Registry ID: 110001157293

Click Here:

Environmental Interest/Information System:
AIR EMISSIONS CLASSIFICATION UNKNOWN
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

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000223434
Registry ID:	110001157293
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110001157293
Name:	K/P CORPORATION
Address:	13951 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578

EMI:

Name:	K/P CORPORATION
Address:	13951A WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 945780000
Year:	2001
County Code:	1
Air Basin:	SF
Facility ID:	12513
Air District Name:	BA
SIC Code:	2752
Air District Name:	BAY AREA 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

Name:	K/P CORPORATION
Address:	13951A WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 945780000
Year:	2002
County Code:	1
Air Basin:	SF
Facility ID:	12513
Air District Name:	BA
SIC Code:	2752
Air District Name:	BAY AREA AQMD

KP LLC (Continued) **1000223434**

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

Name:	K/P CORPORATION
Address:	13951A WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 945780000
Year:	2003
County Code:	1
Air Basin:	SF
Facility ID:	12513
Air District Name:	BA
SIC Code:	2752
Air District Name:	BAY AREA 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:	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

Name:	K/P CORPORATION
Address:	13951A WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 945780000
Year:	2004
County Code:	1
Air Basin:	SF
Facility ID:	12513
Air District Name:	BA
SIC Code:	2752
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.475
Reactive Organic Gases Tons/Yr:	1.0350148
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

Name:	K/P CORPORATION
Address:	13951A WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 945780000
Year:	2005
County Code:	1
Air Basin:	SF
Facility ID:	12513

KP LLC (Continued) **1000223434**

Air District Name:	BA
SIC Code:	2752
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.486
Reactive Organic Gases Tons/Yr:	1.0426994
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

Name:	K/P CORPORATION
Address:	13951A WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 945780000
Year:	2006
County Code:	1
Air Basin:	SF
Facility ID:	12513
Air District Name:	BA
SIC Code:	2752
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.06
Reactive Organic Gases Tons/Yr:	5.06
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

Name:	K/P CORPORATION
Address:	13951A WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 945780000
Year:	2007
County Code:	1
Air Basin:	SF
Facility ID:	12513
Air District Name:	BA
SIC Code:	2752
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.49
Reactive Organic Gases Tons/Yr:	5.49
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

Name:	K/P CORPORATION
Address:	13951A WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	2008

KP LLC (Continued) **1000223434**

County Code:	1
Air Basin:	SF
Facility ID:	12513
Air District Name:	BA
SIC Code:	2752
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.145
Reactive Organic Gases Tons/Yr:	5.145
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

Name:	K/P CORPORATION
Address:	13951A WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	2009
County Code:	1
Air Basin:	SF
Facility ID:	12513
Air District Name:	BA
SIC Code:	2752
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3.7440000000000002
Reactive Organic Gases Tons/Yr:	3.7440000000000002
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

Name:	K/P CORPORATION
Address:	13951A WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	2010
County Code:	1
Air Basin:	SF
Facility ID:	12513
Air District Name:	BA
SIC Code:	2752
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4.8150000000000004
Reactive Organic Gases Tons/Yr:	4.8150000000000004
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

Name:	K/P CORPORATION

KP LLC (Continued) **1000223434**

Address:	13951A WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	2011
County Code:	1
Air Basin:	SF
Facility ID:	12513
Air District Name:	BA
SIC Code:	2752
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.695
Reactive Organic Gases Tons/Yr:	2.695
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

Name:	K/P CORPORATION
Address:	13951A WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	2012
County Code:	1
Air Basin:	SF
Facility ID:	12513
Air District Name:	BA
SIC Code:	2752
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.799
Reactive Organic Gases Tons/Yr:	2.799
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

Name:	K/P CORPORATION
Address:	13951A WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	2013
County Code:	1
Air Basin:	SF
Facility ID:	12513
Air District Name:	BA
SIC Code:	2752
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3.248
Reactive Organic Gases Tons/Yr:	3.248
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

KP LLC (Continued) **1000223434**

Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Name:	K/P CORPORATION
Address:	13951A WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	2014
County Code:	1
Air Basin:	SF
Facility ID:	12513
Air District Name:	BA
SIC Code:	2752
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3.54321338
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

H73 **KP LLC** **CERS HAZ WASTE** **S113017341**
NNW **13951 WASTE AVE** **HAZNET** **N/A**
< 1/8 **SAN LEANDRO, CA 94578** **CERS**
0.115 mi. **HWTS**
609 ft. **Site 2 of 6 in cluster H**

Relative:
Higher

Actual:
43 ft.

CERS HAZ WASTE:

Name:	K/P CORPORATION
Address:	13951 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	395676
CERS ID:	10157739
CERS Description:	Hazardous Waste Generator

HAZNET:

Name:	KP LLC
Address:	13951 WASHINGTON AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 94578
Contact:	BILLY KNIGHT
Telephone:	5103515400
Mailing Name:	Not reported
Mailing Address:	13951 WASHINGTON AVE.
Year:	2019
Gepaid:	CAD982524357
TSD EPA ID:	CAD008252405
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.00000
Year:	2018
Gepaid:	CAD982524357
TSD EPA ID:	CAT080013352
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10

KP LLC (Continued) **S113017341**

	percent
Disposal Method:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.14700
Year:	2018
Gepaid:	CAD982524357
TSD EPA ID:	CAD097030993
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.12000
Year:	2018
Gepaid:	CAD982524357
TSD EPA ID:	CAT080013352
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.00000
Year:	2017
Gepaid:	CAD982524357
TSD EPA ID:	CAT080013352
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.19
Year:	2017
Gepaid:	CAD982524357
TSD EPA ID:	CAD097030993
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.21
Year:	2016
Gepaid:	CAD982524357
TSD EPA ID:	CAT080013352
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.399
Year:	2016
Gepaid:	CAD982524357
TSD EPA ID:	CAD097030993
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.4
Year:	2015
Gepaid:	CAD982524357
TSD EPA ID:	CAD097030993
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

KP LLC (Continued) **S113017341**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.185
Year:	2015
Gepaid:	CAD982524357
TSD EPA ID:	CAT080013352
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.19

Click this hyperlink while viewing on your computer to access
61 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2004
Gen EPA ID:	CAD982524357
Shipment Date:	20040123
Creation Date:	11/18/2004 8:25:56
Receipt Date:	20040209
Manifest ID:	22962738
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	CAT000624247
Trans 2 Name:	MP ENVIRONMENTAL
TSDF EPA ID:	KYD053348108
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	KYD053348108
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1996
Gen EPA ID:	CAD982524357
Shipment Date:	19961118
Creation Date:	5/21/1997 0:00:00
Receipt Date:	19961206
Manifest ID:	96576915
Trans EPA ID:	CAT080013428
Trans Name:	Not reported
Trans 2 EPA ID:	CAD980675896
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080022148

KP LLC (Continued) **S113017341**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960905
Creation Date:	9/12/1997 0:00:00
Receipt Date:	19960920
Manifest ID:	96576887
Trans EPA ID:	CAT080013428
Trans Name:	Not reported
Trans 2 EPA ID:	CAD980675896
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080022148
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080022148
TSDF Alt Name:	Not reported
Waste Code Description:	291 - Latex waste
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960905
Creation Date:	9/12/1997 0:00:00
Receipt Date:	19960920
Manifest ID:	96576887
Trans EPA ID:	CAT080013428
Trans Name:	Not reported
Trans 2 EPA ID:	CAD980675896
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080022148
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080022148
TSDF Alt Name:	Not reported
Waste Code Description:	261 - Not reported
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.004
Waste Quantity:	8
Quantity Unit:	P

KP LLC (Continued) **S113017341**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960905
Creation Date:	9/12/1997 0:00:00
Receipt Date:	19960920
Manifest ID:	96576887
Trans EPA ID:	CAT080013428
Trans Name:	Not reported
Trans 2 EPA ID:	CAD980675896
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080022148
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080022148
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960905
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19960906
Manifest ID:	96576888
Trans EPA ID:	CAT080013428
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000121946
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	541 - Photochemicals / photo processing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.1668
Waste Quantity:	40
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960905
Creation Date:	5/21/1997 0:00:00
Receipt Date:	19960920

KP LLC (Continued) **S113017341**

Manifest ID:	96576889
Trans EPA ID:	CAT080013428
Trans Name:	Not reported
Trans 2 EPA ID:	CAD980675896
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080022148
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19960905
Creation Date:	5/21/1997 0:00:00
Receipt Date:	19960920
Manifest ID:	96576889
Trans EPA ID:	CAT080013428
Trans Name:	Not reported
Trans 2 EPA ID:	CAD980675896
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080022148
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19960905
Creation Date:	5/21/1997 0:00:00
Receipt Date:	19960920
Manifest ID:	96576889
Trans EPA ID:	CAT080013428
Trans Name:	Not reported
Trans 2 EPA ID:	CAD980675896
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080022148
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

KP LLC (Continued) **S113017341**

Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960905
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19960906
Manifest ID:	96576893
Trans EPA ID:	CAT080013428
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982042475
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	2.5284
Waste Quantity:	3
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960905
Creation Date:	9/12/1997 0:00:00
Receipt Date:	19960920
Manifest ID:	96576887
Trans EPA ID:	CAT080013428
Trans Name:	Not reported
Trans 2 EPA ID:	CAD980675896
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080022148
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080022148
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	1.254
Waste Quantity:	380
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

KP LLC (Continued) **S113017341**

Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 1995
Gen EPA ID: CAD982524357

Shipment Date: 19950510
Creation Date: 10/24/1995 0:00:00
Receipt Date: 19950511
Manifest ID: 95352477
Trans EPA ID: CAD008252405
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD009452657
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D001
Meth Code: R01 - Recycler
Quantity Tons: 0.054
Waste Quantity: 15
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19950426
Creation Date: 10/23/1995 0:00:00
Receipt Date: 19950426
Manifest ID: 95351727
Trans EPA ID: CAD008252405
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD009452657
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D001
Meth Code: R01 - Recycler
Quantity Tons: 0.0432
Waste Quantity: 12
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 19950411
Creation Date: 10/23/1995 0:00:00

KP LLC (Continued) **S113017341**

Receipt Date:	19950412
Manifest ID:	95241692
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.1728
Waste Quantity:	48
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19950313
Creation Date:	10/23/1995 0:00:00
Receipt Date:	19950314
Manifest ID:	95241661
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.162
Waste Quantity:	45
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19950207
Creation Date:	3/29/1996 0:00:00
Receipt Date:	19950207
Manifest ID:	93351345
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657

KP LLC (Continued) **S113017341**

TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.18
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAD982524357
Shipment Date:	20150806
Creation Date:	10/12/2015 22:15:20
Receipt Date:	20150817
Manifest ID:	012249423JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAR000187922
Trans 2 Name:	RUST & SONS
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.11
Waste Quantity:	220
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150326
Creation Date:	6/26/2015 22:15:47
Receipt Date:	20150406
Manifest ID:	012249425JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAR000187922
Trans 2 Name:	RUST AND SONS
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid

KP LLC (Continued) **S113017341**

	Regeneration, Organics Recovery Ect
Quantity Tons:	0.19
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150326
Creation Date:	6/26/2015 22:15:47
Receipt Date:	20150406
Manifest ID:	012249422JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAR000187922
Trans 2 Name:	RUST AND SONS
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1998
Gen EPA ID:	CAD982524357
Shipment Date:	19980605
Creation Date:	9/15/1998 0:00:00
Receipt Date:	19980622
Manifest ID:	98308467
Trans EPA ID:	CAT080013428
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982444481
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008252405
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008252405
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.1815
Waste Quantity:	55
Quantity Unit:	G

KP LLC (Continued) **S113017341**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980602
Creation Date:	8/3/1998 0:00:00
Receipt Date:	19980604
Manifest ID:	98308466
Trans EPA ID:	CAT080013428
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982444481
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1042
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980602
Creation Date:	8/3/1998 0:00:00
Receipt Date:	19980604
Manifest ID:	98308466
Trans EPA ID:	CAT080013428
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982444481
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	291 - Latex waste
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1668
Waste Quantity:	40
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2016
Gen EPA ID:	CAD982524357

KP LLC (Continued) **S113017341**

Shipment Date:	20150806
Creation Date:	10/12/2015 22:15:20
Receipt Date:	20150817
Manifest ID:	012249423JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAR000187922
Trans 2 Name:	RUST & SONS
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.11
Waste Quantity:	220
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150326
Creation Date:	6/26/2015 22:15:47
Receipt Date:	20150406
Manifest ID:	012249425JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAR000187922
Trans 2 Name:	RUST AND SONS
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.19
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150326
Creation Date:	6/26/2015 22:15:47
Receipt Date:	20150406
Manifest ID:	012249422JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAR000187922

KP LLC (Continued) **S113017341**

Trans 2 Name:	RUST AND SONS
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1993
Gen EPA ID:	CAD982524357
Shipment Date:	19931223
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931227
Manifest ID:	93119137
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613893
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0135
Waste Quantity:	27
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19931123
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19931130
Manifest ID:	93029697
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported

KP LLC (Continued) **S113017341**

TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.027
Waste Quantity:	54
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19931022
Creation Date:	9/12/1995 0:00:00
Receipt Date:	Not reported
Manifest ID:	93094375
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	- Not reported
Quantity Tons:	0.027
Waste Quantity:	54
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930914
Creation Date:	9/12/1995 0:00:00
Receipt Date:	19930917
Manifest ID:	93002573
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0135
Waste Quantity:	27
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

KP LLC (Continued) **S113017341**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930811
Creation Date:	9/12/1995 0:00:00
Receipt Date:	19930817
Manifest ID:	93221409
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613893
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.027
Waste Quantity:	54
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930714
Creation Date:	9/11/1995 0:00:00
Receipt Date:	19930720
Manifest ID:	92569570
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613893
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.123
Waste Quantity:	246
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930618
Creation Date:	9/8/1995 0:00:00
Receipt Date:	19930622
Manifest ID:	92625436
Trans EPA ID:	ILD984908202

KP LLC (Continued) **S113017341**

Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613893
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.027
Waste Quantity:	54
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930524
Creation Date:	9/7/1995 0:00:00
Receipt Date:	Not reported
Manifest ID:	92579825
Trans EPA ID:	ILD051060408
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	- Not reported
Quantity Tons:	0.027
Waste Quantity:	54
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930427
Creation Date:	9/14/1995 0:00:00
Receipt Date:	19930504
Manifest ID:	92582822
Trans EPA ID:	ILD051060408
Trans Name:	Not reported
Trans 2 EPA ID:	ILD051060408
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005

KP LLC (Continued) **S113017341**

Meth Code:	H01 - Transfer Station
Quantity Tons:	0.027
Waste Quantity:	54
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19930323
Creation Date:	9/6/1995 0:00:00
Receipt Date:	19930330
Manifest ID:	92537451
Trans EPA ID:	ILD051060408
Trans Name:	Not reported
Trans 2 EPA ID:	ILD051060408
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.027
Waste Quantity:	54
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2014
Gen EPA ID:	CAD982524357
Shipment Date:	20141016
Creation Date:	2/24/2015 22:15:05
Receipt Date:	20141028
Manifest ID:	011635640JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAR000187922
Trans 2 Name:	RUST AND SONS
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.19
Waste Quantity:	50
Quantity Unit:	G

KP LLC (Continued) **S113017341**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141016
Creation Date:	1/14/2015 22:14:51
Receipt Date:	20141027
Manifest ID:	011635886JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAR000187922
Trans 2 Name:	RUST AND SONS
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1375
Waste Quantity:	275
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141016
Creation Date:	1/14/2015 22:14:51
Receipt Date:	20141027
Manifest ID:	011635886JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAR000187922
Trans 2 Name:	RUST AND SONS
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.105
Waste Quantity:	210
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140513

KP LLC (Continued) **S113017341**

Creation Date:	8/14/2014 22:15:06
Receipt Date:	20140528
Manifest ID:	011635520JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.19
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20140115
Creation Date:	3/30/2014 22:15:09
Receipt Date:	20140128
Manifest ID:	011635639JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2010
Gen EPA ID:	CAD982524357

Shipment Date:	20101019
Creation Date:	1/3/2011 18:31:02
Receipt Date:	20101026
Manifest ID:	007665572JJK

KP LLC (Continued) **S113017341**

Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.19
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20101006
Creation Date:	3/3/2011 18:30:09
Receipt Date:	20101025
Manifest ID:	003755968FLE
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	D008
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D006
Additional Code 3:	D005
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20100604
Creation Date:	8/30/2010 18:30:22
Receipt Date:	20100615
Manifest ID:	004464177JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

KP LLC (Continued) **S113017341**

Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.209
Waste Quantity: 55
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2006
Gen EPA ID: CAD982524357

Shipment Date: 20061107
Creation Date: 3/30/2007 13:32:55
Receipt Date: 20061121
Manifest ID: 001741642JJK
Trans EPA ID: CAR000009910
Trans Name: CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID: CAD028277036
Trans 2 Name: ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID: CAD097030993
Trans Name: SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.209
Waste Quantity: 55
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20061018
Creation Date: 6/29/2007 18:30:27
Receipt Date: 20061102
Manifest ID: 000215600CEX
Trans EPA ID: TXR000050930
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: OKD981588791
Trans 2 Name: TRIAD TRANSPORT
TSDF EPA ID: TXD077603371
Trans Name: SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 343 - Unspecified organic liquid mixture
RCRA Code: D039
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site

KP LLC (Continued) **S113017341**

Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	D018
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060829
Creation Date:	11/21/2006 18:30:26
Receipt Date:	20060911
Manifest ID:	24929969
Trans EPA ID:	CAR000009910
Trans Name:	CAL ENVIRONMENTAL LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060711
Creation Date:	9/17/2006 18:31:02
Receipt Date:	20060714
Manifest ID:	24929885
Trans EPA ID:	CAR000009910
Trans Name:	CAL ENVIRONMENTAL LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

KP LLC (Continued) **S113017341**

Shipment Date:	20060525
Creation Date:	8/25/2006 18:36:07
Receipt Date:	20060606
Manifest ID:	24534919
Trans EPA ID:	CAR000009910
Trans Name:	CAL ENVIRONMENTAL LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060525
Creation Date:	8/25/2006 18:36:07
Receipt Date:	20060606
Manifest ID:	24534919
Trans EPA ID:	CAR000009910
Trans Name:	CAL ENVIRONMENTAL LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060308
Creation Date:	7/27/2006 18:31:56
Receipt Date:	20060321
Manifest ID:	24534918
Trans EPA ID:	CAR000009910
Trans Name:	CAL ENVIRONMENTAL LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD097030993

KP LLC (Continued) **S113017341**

Trans Name:	US FILTER
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.19
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060105
Creation Date:	5/5/2006 18:31:40
Receipt Date:	20060119
Manifest ID:	24536284
Trans EPA ID:	CAR000009910
Trans Name:	CAL ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAT080033681
Trans Name:	D/K ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2009
Gen EPA ID:	CAD982524357

Shipment Date:	20091120
Creation Date:	5/27/2010 18:31:00
Receipt Date:	20091210
Manifest ID:	002172234SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	D039

KP LLC (Continued) **S113017341**

Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.225
Waste Quantity:	450
Quantity Unit:	P
Additional Code 1:	D018
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090825
Creation Date:	10/6/2009 18:30:19
Receipt Date:	20090901
Manifest ID:	004464176JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0875
Waste Quantity:	175
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090812
Creation Date:	1/8/2010 18:30:56
Receipt Date:	20090825
Manifest ID:	002017052SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

KP LLC (Continued) **S113017341**

Additional Code 5:	Not reported
Shipment Date:	20090507
Creation Date:	9/9/2009 18:30:22
Receipt Date:	20090520
Manifest ID:	001727167SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2008
Gen EPA ID:	CAD982524357
Shipment Date:	20081024
Creation Date:	3/9/2009 18:30:46
Receipt Date:	20081103
Manifest ID:	001489916SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080814

KP LLC (Continued) **S113017341**

Creation Date:	10/13/2008 18:30:08
Receipt Date:	20080826
Manifest ID:	002037886JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.19
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20080805
Creation Date:	12/16/2008 18:30:20
Receipt Date:	20080818
Manifest ID:	001232746SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	1.5
Waste Quantity:	3000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20080214
Creation Date:	7/22/2008 18:30:30
Receipt Date:	20080227
Manifest ID:	001023701SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000

KP LLC (Continued) **S113017341**

Trans Name:	US ECOLOGY NEVADA
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2012
Gen EPA ID:	CAD982524357
Shipment Date:	20121108
Creation Date:	2/9/2013 22:15:14
Receipt Date:	20121119
Manifest ID:	008190317JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL& LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.21
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120607
Creation Date:	10/8/2012 22:15:11
Receipt Date:	20120619
Manifest ID:	008182332JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

KP LLC (Continued) **S113017341**

Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.21
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120607
Creation Date:	10/8/2012 22:15:11
Receipt Date:	20120619
Manifest ID:	008182332JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.21
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120607
Creation Date:	8/7/2012 22:15:19
Receipt Date:	20120619
Manifest ID:	008182350JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.225
Waste Quantity:	450
Quantity Unit:	P

KP LLC (Continued) **S113017341**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120607
Creation Date:	10/8/2012 22:15:11
Receipt Date:	20120619
Manifest ID:	008182332JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.21
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120313
Creation Date:	5/10/2012 20:30:12
Receipt Date:	20120320
Manifest ID:	008182163JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1125
Waste Quantity:	225
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120313

KP LLC (Continued) **S113017341**

Creation Date:	5/10/2012 20:30:12
Receipt Date:	20120320
Manifest ID:	008182163JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.19
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120313
Creation Date:	5/10/2012 20:30:12
Receipt Date:	20120320
Manifest ID:	008182163JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0625
Waste Quantity:	125
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAD982524357

Shipment Date:	20131121
Creation Date:	2/18/2014 22:15:13
Receipt Date:	20131209
Manifest ID:	011635521JJK

KP LLC (Continued) **S113017341**

Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130502
Creation Date:	7/17/2013 22:15:05
Receipt Date:	20130514
Manifest ID:	008190076JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.18
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130502
Creation Date:	7/17/2013 22:15:05
Receipt Date:	20130514
Manifest ID:	008190076JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported

KP LLC (Continued) **S113017341**

TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.19
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130312
Creation Date:	8/23/2013 22:15:06
Receipt Date:	20130403
Manifest ID:	010625738JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130312
Creation Date:	5/8/2013 22:15:09
Receipt Date:	20130402
Manifest ID:	008182349JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.19
Waste Quantity:	50

KP LLC (Continued) **S113017341**

Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130312
Creation Date:	5/8/2013 22:15:09
Receipt Date:	20130402
Manifest ID:	008182349JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130312
Creation Date:	5/8/2013 22:15:09
Receipt Date:	20130402
Manifest ID:	008182349JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

KP LLC (Continued) **S113017341**

Additional Info:

Year:	1994
Gen EPA ID:	CAD982524357
Shipment Date:	19941228
Creation Date:	10/20/1995 0:00:00
Receipt Date:	19941228
Manifest ID:	93349697
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.1224
Waste Quantity:	34
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19941130
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19941130
Manifest ID:	93354075
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.1008
Waste Quantity:	28
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19941103
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19941104
Manifest ID:	93350081
Trans EPA ID:	CAD008252405

KP LLC (Continued) **S113017341**

Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	R01 - Recycler
Quantity Tons:	0.1368
Waste Quantity:	38
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19941006
Creation Date:	3/26/1996 0:00:00
Receipt Date:	19941006
Manifest ID:	93349055
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.09
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19940825
Creation Date:	3/26/1996 0:00:00
Receipt Date:	19940831
Manifest ID:	92607042
Trans EPA ID:	CAD008252405
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	Not reported

KP LLC (Continued) **S113017341**

Meth Code:	R01 - Recycler
Quantity Tons:	0.198
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940801
Creation Date:	3/26/1996 0:00:00
Receipt Date:	19940804
Manifest ID:	93681585
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613893
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.054
Waste Quantity:	108
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19940705
Creation Date:	3/26/1996 0:00:00
Receipt Date:	19940713
Manifest ID:	93658723
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613893
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.054
Waste Quantity:	108
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

KP LLC (Continued) **S113017341**

Shipment Date:	19940607
Creation Date:	3/26/1996 0:00:00
Receipt Date:	19940614
Manifest ID:	93545914
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613893
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0405
Waste Quantity:	81
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19940506
Creation Date:	3/25/1996 0:00:00
Receipt Date:	19940510
Manifest ID:	93506877
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.027
Waste Quantity:	54
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19940422
Creation Date:	3/25/1996 0:00:00
Receipt Date:	19940427
Manifest ID:	93422754
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893

KP LLC (Continued) **S113017341**

Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613893
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0615
Waste Quantity:	123
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2017
Gen EPA ID:	CAD982524357
Shipment Date:	20170620
Creation Date:	7/17/2018 18:30:28
Receipt Date:	20170627
Manifest ID:	015366223JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAR000187922
Trans 2 Name:	RUST & SONS
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.105
Waste Quantity:	210
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170419
Creation Date:	7/24/2018 18:30:44
Receipt Date:	20170502
Manifest ID:	015366046JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAR000187922
Trans 2 Name:	RUST & SONS
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids

KP LLC (Continued) **S113017341**

RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.105
Waste Quantity: 210
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20170419
Creation Date: 7/10/2018 18:30:09
Receipt Date: 20170502
Manifest ID: 015366047JJK
Trans EPA ID: CAR000009910
Trans Name: CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID: CAR000187922
Trans 2 Name: RUST & SONS
TSDF EPA ID: CAT080013352
Trans Name: DEMENNO KERDOON
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 0.19
Waste Quantity: 50
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2011
Gen EPA ID: CAD982524357

Shipment Date: 20110915
Creation Date: 12/13/2011 18:30:13
Receipt Date: 20110927
Manifest ID: 008190318JJK
Trans EPA ID: CAR000009910
Trans Name: CALIFORNIA ENVIRONMENTAL& LITHO
Trans 2 EPA ID: CAD028277036
Trans 2 Name: ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID: CAT080013352
Trans Name: DEMENNO/KERDOON
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 134 - Aqueous solution with <10% total organic residues
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect

KP LLC (Continued) **S113017341**

Quantity Tons:	0.105
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110915
Creation Date:	12/13/2011 18:30:13
Receipt Date:	20110927
Manifest ID:	008190318JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL& LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.21
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110726
Creation Date:	10/19/2011 18:30:23
Receipt Date:	20110802
Manifest ID:	008190200JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.105
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

KP LLC (Continued) **S113017341**

Additional Code 5:	Not reported
Shipment Date:	20110629
Creation Date:	12/15/2011 18:30:29
Receipt Date:	20110719
Manifest ID:	003729348FLE
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	D039
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	D018
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110602
Creation Date:	8/26/2011 18:30:36
Receipt Date:	20110620
Manifest ID:	008190007JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL& LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.144
Waste Quantity:	40
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110602
Creation Date:	8/26/2011 18:30:36
Receipt Date:	20110620
Manifest ID:	008190007JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL& LITHO
Trans 2 EPA ID:	CAD028277036

KP LLC (Continued) **S113017341**

Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110505
Creation Date:	7/14/2011 18:30:12
Receipt Date:	20110517
Manifest ID:	008190008JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL& LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.18
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110428
Creation Date:	7/14/2011 18:30:12
Receipt Date:	20110510
Manifest ID:	008190002JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL& LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid

KP LLC (Continued) **S113017341**

	Regeneration, Organics Recovery Ect
Quantity Tons:	0.18
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110428
Creation Date:	6/16/2011 18:30:32
Receipt Date:	20110509
Manifest ID:	007665573JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110427
Creation Date:	10/12/2011 18:30:21
Receipt Date:	20110511
Manifest ID:	002603955SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	342 - Organic liquids with metals (see 121
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

KP LLC (Continued) **S113017341**

Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2007
Gen EPA ID: CAD982524357

Shipment Date: 20071113
Creation Date: 2/29/2008 18:30:25
Receipt Date: 20071120
Manifest ID: 002037885JJK
Trans EPA ID: CAR000009910
Trans Name: CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID: CAD028277036
Trans 2 Name: ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID: CAD097030993
Trans Name: SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.209
Waste Quantity: 55
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20071023
Creation Date: 3/18/2008 18:30:24
Receipt Date: 20071106
Manifest ID: 000656770SKS
Trans EPA ID: TXR000050930
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: OKD981588791
Trans 2 Name: TRIAD TRANSPORTATION
TSDF EPA ID: TXD077603371
Trans Name: SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 343 - Unspecified organic liquid mixture
RCRA Code: D039
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons: 0.2265
Waste Quantity: 453
Quantity Unit: P
Additional Code 1: D018
Additional Code 2: D001
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20070430

KP LLC (Continued) **S113017341**

Creation Date:	10/10/2007 18:30:16
Receipt Date:	20070514
Manifest ID:	001742238JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.209
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20070430
Creation Date:	10/10/2007 18:30:16
Receipt Date:	20070514
Manifest ID:	001742238JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20070201
Creation Date:	8/9/2007 18:30:38
Receipt Date:	20070220
Manifest ID:	001741643JJK
Trans EPA ID:	CAR000009910
Trans Name:	CALIFORNIA ENVIRONMENTAL & LITHO
Trans 2 EPA ID:	CAD028277036
Trans 2 Name:	ASBURY ENVIRONMENTAL SERVICES

KP LLC (Continued) **S113017341**

TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.19
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20070111
Creation Date:	10/8/2007 18:30:17
Receipt Date:	20070126
Manifest ID:	000169166SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D039
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.1125
Waste Quantity:	225
Quantity Unit:	P
Additional Code 1:	D018
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	K/P CORPORATION
Address:	13951 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	395676
CERS ID:	10157739
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	395676
Site Name:	K/P Corporation
Violation Date:	10-02-2015
Citation:	22 CCR 23 66273.34 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.34
Violation Description:	Failure to properly label the following categories of universal waste as: 1) Each batteries or the container in which the batteries are

KP LLC (Continued) **S113017341**

contained as "Universal Waste-Battery(ies)". 2) Each mercury-containing equipment or the container in which the mercury-containing equipment is contained as "Universal Waste -Mercury-Containing Equipment". 3) Each Florescent lamp or the container or package in which the lamps are contained as "Universal Waste-Lamp(s)". 4) Each electronic devices or the container or pallet in or on which the electronic devices are contained as "Universal Waste-Electronic Device(s)". 5) Each CRTs or the container or pallet in or on which the CRTs are contained as "Universal Waste-CRT(s)". 6) A container of CRT glass shall be labeled or marked clearly with the following phrase: "Universal Waste-CRT glass". 7) In lieu of labeling individual electronic devices, CRTs, and/or containers of CRT glass pursuant to subsections d) through f) of this section, a universal waste handler may combine, package, and accumulate those universal wastes in appropriate containers or within a designated area demarcated by boundaries that are clearly labeled with the applicable portion(s) of the following phrase: "Universal Waste-Electronic Device(s)/Universal Waste - CRT(s)/Universal Waste-CRT Glass".

Violation Notes: Returned to compliance on 10/06/2015. Label UW Lamps containers
Violation Division: San Leandro City
Violation Program: HW
Violation Source: CERS

Site ID: 395676
Site Name: K/P Corporation
Violation Date: 10-02-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 10/05/2015. Move UW lamps indoors from trash enclosure
Violation Division: San Leandro City
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-02-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-02-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Rec'd emailed photos of indoor location and labeled container bin.
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-25-2018
Violations Found: No

KP LLC (Continued) **S113017341**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-25-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 395676
Site Name: K/P Corporation
Site Address: 13951 WASHINGTON AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 10-02-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 395676
Facility Name: K/P Corporation
Env Int Type Code: HMBP
Program ID: 10157739
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.709130
Longitude: -122.147310

Affiliation:
Affiliation Type Desc: Parent Corporation
Entity Name: K/P Corporation
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Billy Knight
Entity Title: Not reported
Affiliation Address: 13951 Washington Ave.
Affiliation City: San Leandro
Affiliation State: CA

KP LLC (Continued) **S113017341**

Affiliation Country:	Not reported
Affiliation Zip:	94578
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	13951 Washington Av, #A
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94578
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Billy Knight
Entity Title:	Digital Operations Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	K/P Corporation
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 351-5400
Affiliation Type Desc:	CUPA District
Entity Name:	San Leandro City
Entity Title:	Not reported
Affiliation Address:	835 East 14th Street
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	(510) 577-3401
Affiliation Type Desc:	Document Preparer
Entity Name:	Billy Knight
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	KP Corporation
Entity Title:	Not reported

KP LLC (Continued) **S113017341**

Affiliation Address: 13951 Washington Ave.
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94578
Affiliation Phone: (510) 351-5400

Affiliation Type Desc: Property Owner
Entity Name: GAHRAHMAT FAMILY LIMITED PARTNERSHIP I
Entity Title: Not reported
Affiliation Address: 13951 Washington Ave, #A
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94578
Affiliation Phone: (408) 986-0451

Name: K/P CORPORATION
Address: 13951 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 945789961
Site ID: 476110
CERS ID: 110001157293
CERS Description: US EPA Air Emission Inventory System (EIS)

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: BILLY KNGHT
Entity Title: Not reported
Affiliation Address: 13951 WA AVE
Affiliation City: SANLEANDRO
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Mike Smith
Entity Title: Operations Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: WILLIAM E KNGHT
Entity Title: MANAGER
Affiliation Address: 13951 WA AVE
Affiliation City: SANLEANDRO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Owner
Entity Name: KP

KP LLC (Continued) **S113017341**

Entity Title: OWNER
Affiliation Address: 13951 WA AVE
Affiliation City: SANLEANDRO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: K P
Entity Title: OPERATOR
Affiliation Address: 13951 WA AV A
Affiliation City: SANLEANDRO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: BILLY KNIGHT
Entity Title: ENVIRONMENTAL CONTACT
Affiliation Address: 13951 WA AVE
Affiliation City: SANLEANDRO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: GAHRAHMAT FMLY ; PRTNRSHP 1ST
Entity Title: Not reported
Affiliation Address: 13951 WA AVENA A
Affiliation City: SANLEANDRO
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

HWTS:
Name: KP LLC
Address: 13951 WASHINGTON AVE
Address 2: Not reported
City,State,Zip: SAN LEANDRO, CA 945780000
EPA ID: CAD982524357
Inactive Date: Not reported
Create Date: 06/29/1990
Last Act Date: 08/28/2020
Mailing Name: Not reported
Mailing Address: 13951 WASHINGTON AVE.
Mailing Address 2: Not reported
Mailing City,State,Zip: SAN LEANDRO, CA 94578
Owner Name: KAYP INVESTCO LLC
Owner Address: 13951 WASHINGTON AVENUE
Owner Address 2: Not reported
Owner City,State,Zip: SAN LEANDRO, CA 945780000
Contact Name: BILLY KNIGHT

KP LLC (Continued) **S113017341**

Contact Address: 13951 WASHINGTON AVE
Contact Address 2: Not reported
City,State,Zip: SAN LEANDRO, CA 94578

NAICS:
EPA ID: CAD982524357
Create Date: 2015-09-30 16:40:06.357
NAICS Code: 323111
NAICS Description: Commercial Gravure Printing
Issued EPA ID Date: 1990-06-29 00:00:00
Inactive Date: Not reported
Facility Name: KP LLC
Facility Address: 13951 WASHINGTON AVE
Facility Address 2: Not reported
Facility City: SAN LEANDRO
Facility County: Not reported
Facility State: CA
Facility Zip: 945780000

EPA ID: CAD982524357
Create Date: 2015-09-30 16:40:06.357
NAICS Code: 323111
NAICS Description: Commercial Printing (except Screen and Books)
Issued EPA ID Date: 1990-06-29 00:00:00
Inactive Date: Not reported
Facility Name: KP LLC
Facility Address: 13951 WASHINGTON AVE
Facility Address 2: Not reported
Facility City: SAN LEANDRO
Facility County: Not reported
Facility State: CA
Facility Zip: 945780000

EPA ID: CAD982524357
Create Date: 2008-03-20 15:51:28.017
NAICS Code: 323114
NAICS Description: Quick Printing
Issued EPA ID Date: 1990-06-29 00:00:00
Inactive Date: Not reported
Facility Name: KP LLC
Facility Address: 13951 WASHINGTON AVE
Facility Address 2: Not reported
Facility City: SAN LEANDRO
Facility County: Not reported
Facility State: CA
Facility Zip: 945780000

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74 **DWA PLUME** **RESPONSE** **S101272669**
NNE **SAN LEANDRO (GROUNDWATER CONTAMINATION)** **ENVIROSTOR** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578** **HIST Cal-Sites**
0.130 mi. **Cortese**
687 ft. **CERS**

Relative:
Higher

Actual:
44 ft.

RESPONSE:
Name: DWA PLUME
Address: SAN LEANDRO (GROUNDWATER CONTAMINATION)
City,State,Zip: SAN LEANDRO, CA 94578

DWA PLUME (Continued) **S101272669**

Facility ID:	01990002
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	100
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Moises Carvalho
Supervisor:	John Karachewski
Division Branch:	Cleanup Berkeley
Site Code:	200327
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	18
Senate:	09
Special Program Status:	Not reported
Status:	Active
Status Date:	12/31/1999
Restricted Use:	NO
Funding:	Orphan Funds
Latitude:	37.70585
Longitude:	-122.1530
APN:	075 008401405, 075 008401502, 075 008401904, 075 008700102, 075 008700416, 075 008700800, 077A065000310, 077B080001400, 077B085500702, 077B085500708, 077B085500803, 077B085503100, 077D142400508, 077D143701304, 077D144000123
Past Use:	DRY CLEANING, LAUNDRY SERVICES, MANUFACTURING - ELECTRONIC, MANUFACTURING - LUMBER/WOOD PRODUCTS, MANUFACTURING - METAL, PAINT MANUFACTURING, RESIDENTIAL AREA, TRANSPORTATION - WAREHOUSING
Potential COC :	Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride 1,2-Dichloroethylene (cis
Confirmed COC:	Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride 1,2-Dichloroethylene (cis
Potential Description:	OTH, SV, OTH, SV
Alias Name:	1465 FACTOR AVENUE SITE (OFF-SITE)
Alias Type:	Alternate Name
Alias Name:	750 139TH SITE (OFF-SITE)
Alias Type:	Alternate Name
Alias Name:	SAN LEANDRO REGIONAL PLUME
Alias Type:	Alternate Name
Alias Name:	SINGER-FRIDEN (OFF-SITE)
Alias Type:	Alternate Name
Alias Name:	075 008401405
Alias Type:	APN
Alias Name:	075 008401502
Alias Type:	APN
Alias Name:	075 008401904
Alias Type:	APN
Alias Name:	075 008700102
Alias Type:	APN
Alias Name:	075 008700416
Alias Type:	APN
Alias Name:	075 008700800
Alias Type:	APN
Alias Name:	077A065000310
Alias Type:	APN
Alias Name:	077B080001400
Alias Type:	APN

DWA PLUME (Continued) **S101272669**

Alias Name:	077B085500702
Alias Type:	APN
Alias Name:	077B085500708
Alias Type:	APN
Alias Name:	077B085500803
Alias Type:	APN
Alias Name:	077B085503100
Alias Type:	APN
Alias Name:	077D142400508
Alias Type:	APN
Alias Name:	077D143701304
Alias Type:	APN
Alias Name:	077D144000123
Alias Type:	APN
Alias Name:	110033618627
Alias Type:	EPA (FRS #)
Alias Name:	200034
Alias Type:	Site Code - Historical
Alias Name:	201326
Alias Type:	Site Code - Historical
Alias Name:	201327
Alias Type:	Site Code - Historical
Alias Name:	201328
Alias Type:	Site Code - Historical
Alias Name:	200327
Alias Type:	Project Code (Site Code)
Alias Name:	01240035
Alias Type:	Envirostor ID Number
Alias Name:	01340040
Alias Type:	Envirostor ID Number
Alias Name:	01340117
Alias Type:	Envirostor ID Number
Alias Name:	01360094
Alias Type:	Envirostor ID Number
Alias Name:	01380001
Alias Type:	Envirostor ID Number
Alias Name:	01470004
Alias Type:	Envirostor ID Number
Alias Name:	01730011
Alias Type:	Envirostor ID Number
Alias Name:	01750029
Alias Type:	Envirostor ID Number
Alias Name:	01750031
Alias Type:	Envirostor ID Number
Alias Name:	01890017
Alias Type:	Envirostor ID Number
Alias Name:	01990002
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	San Leandro Boulevard Area
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	03/13/2002
Comments:	Notice of exemption for San Leandro Boulevard RAW
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

DWA PLUME (Continued) **S101272669**

Completed Document Type: Imminent and/or Subst. Endangerment Determination
Completed Date: 05/29/1992
Comments: Issued Imminent and Substantial Endangerment Determination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 05/25/2011
Comments: Contract Fiscal Approval (CFA) 10-260 for groundwater monitoring at the DWA Plume in San Leandro.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 10/16/2006
Comments: CFA approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 07/15/2011
Comments: Contract 10-T1146 with URS for groundwater monitoring.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 12/15/2006
Comments: Contract for BDI Injection and groundwater monitoring

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 12/20/2006
Comments: Work order issued to conduct BDI Injections and groundwater monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 07/18/2011
Comments: Work order for sampling of existing wells (Cover letter incorrectly dated June 18 instead of July 18, 2011).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 05/21/2014
Comments: Contract 13-T3787 WO1 authorizes activities for groundwater and soil gas investigation at the DWA Plume Residential Area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/19/2014
Comments: Contract 13-T3787 WO 1 for groundwater and soil gas monitoring in the DWA Plume Residential Area.

DWA PLUME (Continued) **S101272669**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date:	02/18/2014
Comments:	CFA signed.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	05/12/2013
Comments:	Phase 1 ESA, Phase One Inc., January 2013 and Phase 2, Groundwater Investigation, Phase One Inc., March 2013 review revealed no evidence of a release at this site. Groundwater contamination underneath property is related to the DWA Plume.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/30/2013
Comments:	DTSC oversight cost estimate for fiscal year 2013/2014

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	PRP Identification Memorandum
Completed Date:	01/10/2019
Comments:	The memorandum documents the potentially-responsible parties (PRPs) identified for the DWA Plume. Of the 14 sites and study areas within the footprint of the regional groundwater plume, DTSC identified PRPs for four sites: Singer Friden, Century Plating, Cintas Corporation, and Hudson I.C.S. DTSC recovered $6.5 million for past and future costs related to the Singer Friden site. The data suggest that the contaminants at three sites do not impact the regional groundwater plume. If additional sources for the regional groundwater plume are identified in the future, it may be appropriate to pursue cost recovery from additional PRPs. At this time, however, there are no additional PRPs to pursue.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract
Completed Date:	05/16/2014
Comments:	Contract for groundwater and soil gas investigations.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date:	06/19/2014
Comments:	CFA signed 2014

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract
Completed Date:	12/08/2014
Comments:	Contract 14-T3907 authorizes activities required for potential responsible party search in the DWA Plume Residential Area.

Completed Area Name:	PROJECT WIDE

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Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 10/08/2014
Comments: Contract Fiscal Approval (CFA) 14-126 for Contract 14-T3907 which authorizes potential responsible party search in the DWA Plume Residential Area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 10/21/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 04/24/2015
Comments: Contract for in-situ bioremediation in residential area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 03/26/2015
Comments: extension of contract to December 31, 2015

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 03/20/2015
Comments: Contract Fiscal Approval (CFA) 14-292 for Contract 14-T3968 which authorizes activities required to conduct an in-situ bioremediation pilot study in the Residential Area of the DWA Plume.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 01/07/2015
Comments: Amendment 2

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/04/2015
Comments: Work order to add additional soil gas and groundwater samples.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 09/12/2014
Comments: work order amendment

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 01/15/2015
Comments: Contract 14-T3907 authorizes activities for conducting a responsible party search at the residential area of the DWA Plume.

DWA PLUME (Continued) **S101272669**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 12/21/2015
Comments: Contract for sampling indoor air in the DWA Plume.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 01/05/2016
Comments: Work order for indoor air sampling in the Cedar Avenue area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/09/2016
Comments: Stop work order because contract expired.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 03/13/2017
Comments: Requisition for VI mitigation in Cedar Ave industrial area submitted 3/13/2017.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/01/2017
Comments: Letters to residents of the Cedar Avenue area in the DWA Plume requesting consent to access property to collect indoor air samples.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/22/2014
Comments: Various letters to individuals requesting to access and sample private wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 10/30/2017
Comments: Contract 16-T4283 authorizes activities for conducting indoor air sampling at the Cedar Avenue residential area of the DWA Plume.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 04/12/2018
Comments: DTSC letter releasing Engineering/Remediation Resources Group, Inc. from Contract No. 16-T4289. Vapor intrusion mitigation systems were to be installed in the Cedar Avenue residential area; however, the work was not required or performed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

DWA PLUME (Continued) **S101272669**

Completed Document Type: State/Federal Funded Site Contract
Completed Date: 06/23/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 02/20/2015
Comments: Time extension CFA

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Access Agreement
Completed Date: 10/20/2014
Comments: Access agreement to sample well on PG&E property

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 03/07/2017
Comments: Requisition approved for indoor air sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 05/03/2017
Comments: Fully-executed contract for SGI Indoor Air Sampling at San Leandro Plume $40k

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 07/25/2014
Comments: Various letters requesting access to sample private wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 03/23/2018
Comments: Fully-executed contract dated 3/23/2018.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 07/20/2018
Comments: DTSC issued Work Order No. 1 under Contract 17-T4438 to Apex Companies, Inc. The activities to be performed under the Work Order are for the purpose of better defining the lateral extent of groundwater and soil gas plumes encroaching on the DWA Plume Residential Area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 03/23/2018
Comments: Fully-executed Contract 17-T4437 between the Department of Toxic Substances Control and the Engineering/Remediation Resources Group,

DWA PLUME (Continued) **S101272669**

Inc. The Contract scope of work consists of preparing and implementing a workplan for in situ bioremediation by groundwater injection and performing pre- and post-injection groundwater monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 10/21/2011
Comments: Workplan for groundwater sampling approved.

Completed Area Name: San Leandro Boulevard Area
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 03/13/2002
Comments: Approved RAW for the contamination located next to 2481 San Leandro Boulevard which requires the excavation and offsite disposal of soil contaminated with TCE and PCE.

Completed Area Name: San Leandro Boulevard Area
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 11/12/2002
Comments: Completed RA. Between August 1 and August 26, 2002, DTSC's contractor conducted a removal action using state funds at the San Leandro Source Area. Approximately 500 cubic yards of soil contaminated with volatile organic compounds (VOCs) primarily trichloroethene (TCE) and tetrachloethene (PCE) was excavated from the following locations: 1) the 1600 square foot area adjacent to San Leandro Boulevard (to a depth of 7 feet), and 2) the 100 square foot area extending into San Leandro Boulevard (to a depth of 15 feet).

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 08/04/2005
Comments: Workplan to conduct soil gas investigation at the residential area accepted.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 03/09/2006
Comments: Soil gas investigation found elevated tetrachloroethene(PCE) soil gas concentrations in the vicinity of Monterey Boulevard which appear to correlate with high PCE concentrations in groundwater. The report recommends addition soil gas investigation and possible treatment of groundwater to reduce concentrations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 12/29/1995
Comments: Hydrogeology of Central San Leandro Remedial Investigation of the Regional Groundwater Contamination, San Leandro Plume.

Completed Area Name: San Leandro Residential Area

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Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/09/2006
Comments: Volatile organic compounds are present in the residential area and are comparable to 2003 results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/22/2014
Comments: Site visit during soil vapor probe installation and soil vapor sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/09/2006
Comments: VOCS are still present in the San Leandro Residential area at concentrations comparable to the historical data.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/11/2006
Comments: volatile organic compounds (VOCS) are still present in the DWA Plume Residential area at concentrations comparable to the historical data.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 07/20/2006
Comments: VOCS are still present in the San Leandro Residential area at concentrations comparable to the historical data.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 02/28/1995
Comments: Public Participation Plan for the San Leandro Plume approved.

Completed Area Name: San Leandro Boulevard Area
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 12/20/2004
Comments: Pilot Study was completed at 2 locations in San Leandro Boulevard area using HRC and DHE bacteria. One location was in the Cherry Street and the other location was in the Hudson SIte.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 12/20/2004
Comments: Pilot Study was completed using HRC and DHE bacteria to treat groundwater at 2 locations in the DWA plume. One location was in the high PCE area in the residential area and the other location was near Aladdin Street near U.S. Can Site.

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Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 11/10/2005
Comments: Groundwater sampling completed.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 02/27/2006
Comments: Groundwater Sampling completed.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/30/2006
Comments: Passive diffusion bag (PDB) sampler installed into the monitoring wells on May 4, 2006. PDBs were retrieved after equilibration on May 22, 2006.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 07/25/2003
Comments: Tetrachloroethene (PCE) concentrations are 1 to 2 orders of magnitude less downgradient of the high PCE concentration area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 03/29/1995
Comments: Groundwater sampling was conducted at 41 locations in the indutrial area of San Leandro. Trichloroethylene, tetrachloroethylene and cis-1,2-dichloroethylene were detected.

Completed Area Name: San Leandro Toe of the Plume
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 08/30/2001
Comments: 25 cone penetrometer tests were conducted in the toe of the plume. Tetrachloroethene and trichloroethene were detected.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 08/09/2001
Comments: Seven monitoring wells in the residential area were sampled. Tetrachloroethene and trichloroethene and were detected in some wells. Not reported

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 05/19/2006
Comments: DTSC prepared HRC injection workplan to inject HRC and HRC-X at 2 locations in San Leandro Residential Area.

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Completed Area Name:	San Leandro Boulevard Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	01/31/2002
Comments:	Fact Sheet for Draft RAW for soils

Completed Area Name:	San Leandro Boulevard Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	01/31/2002
Comments:	Public Notice for Draft RAW for Soils

Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	07/19/2006
Comments:	HRC Injection completed.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	12/13/1989
Comments:	The purpose of this investigation was to evaluate the regional hydrogeologic conditions in the San Leandro area so that data collected at the 1465 Factor Avenue and 750 139th Avenue Sites can be evaluated within a larger hydrogeologic context.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	10/13/1989
Comments:	The Investigations indicate the presence of volatile organic compounds in shallow groundwater beneath the vicinity of the 750 139th Avenue Site. Groundwater in the intermediate-depth zone was impacted at one location. Several metals (barium, cadmium, chromium, and lead) were also present at levels drinking water standards.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	11/17/1987
Comments:	A plume of volatile organics exists in the shallow groundwater beneath 750 139th Avenue. The source of contamination is unknown and probably is not located at 750 139th Avenue.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	11/20/1987
Comments:	Evaluation of the soil gas investigation results indicates one and possibly two areas of volatile organic compounds and total hydrocarbon soil gas contamination near 750 139th Avenue.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	01/20/1993

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Comments:	Upper groundwater is contaminated with chlorinated volatile organic compounds at a number of locations throughout the study area. The data show that the contaminated groundwater has migrated and is continuing to migrate off-site areas to the west/southwest.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	07/23/1993
Comments:	Cone Penetrometer Testing, Hydropunch Groundwater Sampling, and Coordinated Monitoring Well Sampling results are presented in this report. Evaluation of this data is included in the Remedial investigation report.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	12/29/1993
Comments:	The Investigations indicate the presence of volatile organic compounds in shallow groundwater, primarily trichloroethene (TCE) and tetrachloethene (PCE). Shallow groundwater plume was more than a mile wide and two miles long. The plume is commingled plume with multiple source areas.
Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	04/28/1995
Comments:	Groundwater sampling was conducted at 34 locations in the residential area of San Leandro. Trichloroethylene, tetrachloroethylene and cis-1,2-dichloroethylene were detected.
Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	10/20/1995
Comments:	Seven monitoring wells were installed in the residential area. Soil volatile organic compound (VOC)concentrations were below regulatory levels. VOCs were detected in groundwater. Soil gas and ambient air sample had some detections of VOCs and these data will be used in the risk assessment.
Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Risk Assessment Report
Completed Date:	04/01/1997
Comments:	All estimated cancer and non-cancer risks for human receptors were within acceptable risk range. This risk estimate assumes that the shallow groundwater will not be used for domestic purposes.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	09/01/1988
Comments:	The fact sheet describes activities associated with Phase II remedial investigations at 750 139th Avenue and 1465 Factor Avenue Sites.

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Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 10/01/1991
Comments: The fact sheet provides information about well water testing in San Leandro.

Completed Area Name: Century Plating Area
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 06/22/2006
Comments: DTSC prepared HRC Injection Work Plan.

Completed Area Name: Century Plating Area
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 08/31/2006
Comments: BDI Injection was completed.

Completed Area Name: Century Plating Area
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 10/11/2006
Comments: Completion report approved which documents the activities relating to the injection of Hydrogen Releasing Compound and BDI bacteria.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 09/15/2006
Comments: Completion report approved which documents the activities relating to the injection of Hydrogen Releasing Compound.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 01/10/2007
Comments: DTSC prepared an amendment to the HRC injection Workplan for BDI bacteria injection.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 01/19/2007
Comments: Fieldwork completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 09/06/2006
Comments: This site (2700 Merced Street) is located within the DWA Plume and volatile organic compounds (VOCs) above drinking water standards has been detected in groundwater.

Completed Area Name: San Leandro Toe of the Plume
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report

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Completed Date: 08/05/2004
Comments: Groundwater sampling of 4 wells indicate 3 of the wells have volatile organic compounds exceeding drinking water standards.

Completed Area Name: San Leandro Toe of the Plume
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/11/2003
Comments: Four Monitoring wells were installed in the toe of the DWA Plume area and 3 of the wells have volatile organic compounds exceeding drinking water standards.

Completed Area Name: San Leandro Toe of the Plume
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/19/2003
Comments: Groundwater sampling of 4 wells indicate 3 of the wells have volatile organic compounds exceeding drinking water standards.

Completed Area Name: San Leandro Toe of the Plume
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/11/2004
Comments: Groundwater sampling of 4 wells indicate 3 of the wells have volatile organic compounds exceeding drinking water standards.

Completed Area Name: San Leandro Toe of the Plume
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 05/11/2004
Comments: Groundwater sampling of 4 wells indicate 3 of the wells have volatile organic compounds exceeding drinking water standards.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 02/13/2007
Comments: Amend the existing workplan to add monitoring of 10 wells in the residential area and 4 wells in the toe of the Plume.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/16/2007
Comments: Passive diffusion bag (PDB) sampler installed into the monitoring wells on April 4 and 6, 2007. PDBs were retrieved after equilibration on April 27, 2007 from monitoring wells within the DWA Plume Residential Area.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/16/2007
Comments: Passive diffusion bag (PDB) sampler installed into the monitoring wells on April 27, 2007. PDBs were retrieved after equilibration on July 28, 2007 from monitoring wells within the DWA Plume Residential and Toe of the Plume areas.

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Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/17/2007
Comments: Passive diffusion bag (PDB) sampler installed into the monitoring wells on July 18, 2007. PDBs were retrieved after equilibration on October 17, 2007 from monitoring wells within the DWA Plume Residential Area.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 01/15/2008
Comments: Passive diffusion bag (PDB) sampler installed into the monitoring wells on October 17, 2007. PDBs were retrieved after equilibration on January 17, 2008 from monitoring wells within the DWA Plume Residential and Toe of the Plume areas.

Completed Area Name: San Leandro Toe of the Plume
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/16/2007
Comments: Passive diffusion bag (PDB) sampler installed into the monitoring wells on April 4 and 6, 2007. PDBs were retrieved after equilibration on April 27, 2007 from monitoring wells within the DWA Plume Toe of the Plume area

Completed Area Name: San Leandro Toe of the Plume
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/17/2007
Comments: Passive diffusion bag (PDB) sampler installed into the monitoring wells on July 18, 2007. PDBs were retrieved after equilibration on October 17, 2007 from monitoring wells within the DWA Plume Toe of the Plume area.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 07/16/2007
Comments: Results of the post BDI injection ground water sampling event indicate that PCE concentrations in most wells are still fluctuating within the historical ranges. However, R-1 and MW-R51, showed significant decreases of PCE concentrations after the HRC/BDI injections and significant increases in cis-1,2-DCE concentrations. Increase in cis-1,2 DCE concentrations, whcih is a daughter product of dechlorination of PCE, indicates active ongoing dechlorination in wells R1 and MW-R51, which can be directly related to the injection of HRC and BDI.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/26/2007
Comments: Results of the post BDI injection ground water sampling event indicate that PCE concentrations in most wells are still fluctuating within the historical ranges. However, R-1 and MW-R51, showed

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significant decreases of PCE concentrations after the HRC/BDI injections and significant increases in cis-1,2-DCE concentrations.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 12/17/2007
Comments: Results appear to be consistent with previous results showing significant decreases in parent compounds and increases in daughter products.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/27/2008
Comments: Results appear to be consistent with previous results showing significant decreases in parent compounds and increases in daughter products.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/27/2012
Comments: Groundwater monitoring was conducted in the DWA plume and overall VOC concentrations are in a decreasing trend, except for PCE in the residential area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 04/08/2014
Comments: Remedial Investigation Report summarizes previous environmental and hydrogeologic investigations, removal action workplans, or remedial action plans, treatability studies and provide recommendations for next steps and future work.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 04/28/2015
Comments: Risk was evaluated regarding use of groundwater for irrigation and for recreational uses. The risk evaluation indicates that water can be used for irrigation, but should not be used for recreational uses such as swimming pools.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 09/11/2014
Comments: Groundwater monitoring workplan outlines activities to further characterize the VOC-impacted DWA Plume

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 10/14/2014
Comments: Soil Vapor Sampling Work Plan (Work Plan) for the DWA Plume located

DWA PLUME (Continued) **S101272669**

within the DWA Plume Study Area in San Leandro, California. The purpose of this Work Plan is to further characterize soil vapor conditions in the DWA Plume through sampling and laboratory analysis of select volatile organic compounds (VOCs).

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 04/07/2016
Comments: Workplan to conduct indoor air sampling in 20 homes in the Cedar Avenue area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 10/13/2014
Comments: Work notice to inform the local community about soil gas sampling in the DWA Plume area located between Washington Avenue, Floresta Boulevard, Marina Boulevard and the San Francisco Bay in San Leandro, CA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 05/11/2015
Comments: Shallow soil vapor samples are elevated in several locations, follow up is required and will include additional sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 05/11/2015
Comments: Groundwater concentrations are consistent with historical concentrations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 07/23/2015
Comments: Workplan addresses follow up sampling of soil gas and groundwater based on previous investigation results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 08/07/2015
Comments: Work notice for additional soil gas sampling in three areas of the DWA plume

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 11/20/2015
Comments: Report documents supplemental soil gas sampling conducted during 2015. One new hot spot area identified and recommended for indoor air sampling.

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Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	02/28/2018
Comments:	Resampling fieldwork completed on 2/28/2018.

Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	03/30/2018
Comments:	Report presents results of indoor air sampling events in November 2017 and February 2018. Sampling events were conducted in a portion of the residential area of the DWA Plume in the Cedar Avenue vicinity (the Residential Area).

Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Workplan
Completed Date:	02/20/2019
Comments:	The purpose of the Soil Vapor and Groundwater Sampling Work Plan (Work Plan) is to define the lateral extent of the elevated soil vapor that was detected in 2015 in the Cedar Avenue vicinity and to investigate groundwater contamination in the same area. The Work Plan presents the site background, scope of work, data evaluation and reporting, and anticipated schedule.

Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	12/03/2019
Comments:	Primary volatile organic compounds (VOCs) concentrations in the grab groundwater samples are generally consistent with the conceptualization of the regional DWA Plume as presented in the 2015 Groundwater Monitoring Report and historical concentrations. Groundwater concentrations do not correlate well with soil vapor concentrations in the collocated boreholes. The site-specific groundwater/soil vapor correlation for tetrachloroethene and trichloroethene concentrations varies over several order of magnitude for the different boreholes; hence, establishing a uniform site-specific attenuation factor is not recommended.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract
Completed Date:	06/16/2018
Comments:	Contract 17-T4438 authorizes activities required to perform a volatile organic carbon source delineation investigation in the Residential Area of the DWA Plume in San Leandro.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Litigation Support
Completed Date:	04/16/2020
Comments:	Disallowance decision letter provides DTSC s Contract Manager reasons regarding the September 6, 2019 dispute concerning Contract 17-T4438 Work Order 1 Invoice 207595 disallowance in accordance with Section 12 of Exhibit D of the Contract 17-T4438.

DWA PLUME (Continued) **S101272669**

Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Post HARP Form
Completed Date:	05/14/2019
Comments:	No exposure symptoms noted.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Orphan Site Designation
Completed Date:	10/16/2019
Comments:	Orphan Memo approved, signed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract
Completed Date:	12/10/2019
Comments:	All work under Contract No. 17-T4438 for the San Leandro - DWA Plume site is complete.
Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Pre-HARP Form
Completed Date:	01/08/2019
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Litigation Support
Completed Date:	12/09/2020
Comments:	DTSC proposes a settlement with Apex Companies, LLC (Apex) regarding Contract 17-T4438 Work Order 1 - Invoice 207595 Disallowance Decision. DTSC proposes to pay Apex $3,298.75, which corresponds to half of the disallowed amount if Apex and DTSC sign a Settlement Agreement and Release of Claims.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract
Completed Date:	12/10/2020
Comments:	Contract 20-T481 with RMD. Contract scope of work consists of technical consultative services to provide deliverable necessary to perform additional remedial investigations at the DWA Plume site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Work Order
Completed Date:	12/18/2020
Comments:	Contract 20-T4841 Work Order # 1 with RMD. Work Order #1 scope of work consists of three tasks as follows: Task 1 Development of a Current Conditions Report Task 2 Development of a Supplemental Site Characterization Workplan Task 3 Participation in meetings and teleconferences as necessary
Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Work Notice
Completed Date:	04/04/2019

DWA PLUME (Continued) **S101272669**

Comments:	Work Notice for a Soil Vapor and Groundwater Sampling Investigation conducted at Cedar Avenue vicinity in San Leandro.
Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	05/28/2019
Comments:	The activities included in the Soil Vapor and Groundwater Sampling Workplan were completed. Investigation-derived waste was profiled and characterized as non-hazardous. The temporary waste storage area was disassembled on May 24, 2019
Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	09/13/2019
Comments:	Field activities consisted of installation of three temporary soil vapor probes and soil vapor sampling 48-hours after installation.
Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Work Notice
Completed Date:	08/30/2019
Comments:	Work notice informing local community about soil vapor investigation to be conducted in the Juniper Street Vicinity in the DWA Plume Residential Area.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	09/26/2019
Comments:	Historical San Leandro Sandborn Maps were scanned into PDF format and saved in the DTSC server (M Drive)
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date:	12/11/2019
Comments:	According to the information provided, the current building structure was constructed in the late 1970 s and it has been used for food processing by Saag s since that time. There were no historical records or other indications of the storage or use of significant quantities of hazardous materials at the Property. Groundwater monitoring event conducted as part of the Phase II investigation shows that volatile organic chemicals (VOCs)-impacted groundwater migrating onto the Property derive from upgradient source areas of the DWA Plume (regional VOC-impacted groundwater plume), consistent with the historical groundwater data.
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Plan
Future Due Date:	2023
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Remedial Action Completion Report
Future Due Date:	2024

DWA PLUME (Continued) **S101272669**

Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	5 Year Review Reports
Future Due Date:	2026
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Site Characterization Report
Future Due Date:	2021
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

ENVIROSTOR:

Name:	DWA PLUME
Address:	SAN LEANDRO (GROUNDWATER CONTAMINATION)
City,State,Zip:	SAN LEANDRO, CA 94578
Facility ID:	01990002
Status:	Active
Status Date:	12/31/1999
Site Code:	200327
Site Type:	State Response
Site Type Detailed:	State Response or NPL
Acres:	100
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Moises Carvalho
Supervisor:	John Karachewski
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Orphan Funds
Latitude:	37.70585
Longitude:	-122.1530
APN:	075 008401405, 075 008401502, 075 008401904, 075 008700102, 075 008700416, 075 008700800, 077A065000310, 077B080001400, 077B085500702, 077B085500708, 077B085500803, 077B085503100, 077D142400508, 077D143701304, 077D144000123
Past Use:	DRY CLEANING, LAUNDRY SERVICES, MANUFACTURING - ELECTRONIC, MANUFACTURING - LUMBER/WOOD PRODUCTS, MANUFACTURING - METAL, PAINT MANUFACTURING, RESIDENTIAL AREA, TRANSPORTATION - WAREHOUSING
Potential COC:	Tetrachloroethylene (PCE Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride 1,2-Dichloroethylene (cis
Confirmed COC:	Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride 1,2-Dichloroethylene (cis Tetrachloroethylene (PCE
Potential Description:	OTH, SV, OTH, SV
Alias Name:	1465 FACTOR AVENUE SITE (OFF-SITE)
Alias Type:	Alternate Name
Alias Name:	750 139TH SITE (OFF-SITE)
Alias Type:	Alternate Name

DWA PLUME (Continued) **S101272669**

Alias Name:	SAN LEANDRO REGIONAL PLUME
Alias Type:	Alternate Name
Alias Name:	SINGER-FRIDEN (OFF-SITE)
Alias Type:	Alternate Name
Alias Name:	075 008401405
Alias Type:	APN
Alias Name:	075 008401502
Alias Type:	APN
Alias Name:	075 008401904
Alias Type:	APN
Alias Name:	075 008700102
Alias Type:	APN
Alias Name:	075 008700416
Alias Type:	APN
Alias Name:	075 008700800
Alias Type:	APN
Alias Name:	077A065000310
Alias Type:	APN
Alias Name:	077B080001400
Alias Type:	APN
Alias Name:	077B085500702
Alias Type:	APN
Alias Name:	077B085500708
Alias Type:	APN
Alias Name:	077B085500803
Alias Type:	APN
Alias Name:	077B085503100
Alias Type:	APN
Alias Name:	077D142400508
Alias Type:	APN
Alias Name:	077D143701304
Alias Type:	APN
Alias Name:	077D144000123
Alias Type:	APN
Alias Name:	110033618627
Alias Type:	EPA (FRS #)
Alias Name:	200034
Alias Type:	Site Code - Historical
Alias Name:	201326
Alias Type:	Site Code - Historical
Alias Name:	201327
Alias Type:	Site Code - Historical
Alias Name:	201328
Alias Type:	Site Code - Historical
Alias Name:	200327
Alias Type:	Project Code (Site Code)
Alias Name:	01240035
Alias Type:	Envirostor ID Number
Alias Name:	01340040
Alias Type:	Envirostor ID Number
Alias Name:	01340117
Alias Type:	Envirostor ID Number
Alias Name:	01360094
Alias Type:	Envirostor ID Number
Alias Name:	01380001
Alias Type:	Envirostor ID Number
Alias Name:	01470004

DWA PLUME (Continued) **S101272669**

Alias Type: Envirostor ID Number
Alias Name: 01730011
Alias Type: Envirostor ID Number
Alias Name: 01750029
Alias Type: Envirostor ID Number
Alias Name: 01750031
Alias Type: Envirostor ID Number
Alias Name: 01890017
Alias Type: Envirostor ID Number
Alias Name: 01990002
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: San Leandro Boulevard Area
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 03/13/2002
Comments: Notice of exemption for San Leandro Boulevard RAW

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Imminent and/or Subst. Endangerment Determination
Completed Date: 05/29/1992
Comments: Issued Imminent and Substantial Endangerment Determination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 05/25/2011
Comments: Contract Fiscal Approval (CFA) 10-260 for groundwater monitoring at the DWA Plume in San Leandro.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 10/16/2006
Comments: CFA approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 07/15/2011
Comments: Contract 10-T1146 with URS for groundwater monitoring.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 12/15/2006
Comments: Contract for BDI Injection and groundwater monitoring

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 12/20/2006
Comments: Work order issued to conduct BDI Injections and groundwater monitoring.

Completed Area Name: PROJECT WIDE

DWA PLUME (Continued) **S101272669**

Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 07/18/2011
Comments: Work order for sampling of existing wells (Cover letter incorrectly dated June 18 instead of July 18, 2011).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 05/21/2014
Comments: Contract 13-T3787 WO1 authorizes activities for groundwater and soil gas investigation at the DWA Plume Residential Area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/19/2014
Comments: Contract 13-T3787 WO 1 for groundwater and soil gas monitoring in the DWA Plume Residential Area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 02/18/2014
Comments: CFA signed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/12/2013
Comments: Phase 1 ESA, Phase One Inc., January 2013 and Phase 2, Groundwater Investigation, Phase One Inc., March 2013 review revealed no evidence of a release at this site. Groundwater contamination underneath property is related to the DWA Plume.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/30/2013
Comments: DTSC oversight cost estimate for fiscal year 2013/2014

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PRP Identification Memorandum
Completed Date: 01/10/2019
Comments: The memorandum documents the potentially-responsible parties (PRPs) identified for the DWA Plume. Of the 14 sites and study areas within the footprint of the regional groundwater plume, DTSC identified PRPs for four sites: Singer Friden, Century Plating, Cintas Corporation, and Hudson I.C.S. DTSC recovered $6.5 million for past and future costs related to the Singer Friden site. The data suggest that the contaminants at three sites do not impact the regional groundwater plume. If additional sources for the regional groundwater plume are identified in the future, it may be appropriate to pursue cost recovery from additional PRPs. At this time, however, there are no additional PRPs to pursue.

DWA PLUME (Continued) **S101272669**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 05/16/2014
Comments: Contract for groundwater and soil gas investigations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 06/19/2014
Comments: CFA signed 2014

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 12/08/2014
Comments: Contract 14-T3907 authorizes activities required for potential responsible party search in the DWA Plume Residential Area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 10/08/2014
Comments: Contract Fiscal Approval (CFA) 14-126 for Contract 14-T3907 which authorizes potential responsible party search in the DWA Plume Residential Area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 10/21/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 04/24/2015
Comments: Contract for in-situ bioremediation in residential area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 03/26/2015
Comments: extension of contract to December 31, 2015

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 03/20/2015
Comments: Contract Fiscal Approval (CFA) 14-292 for Contract 14-T3968 which authorizes activities required to conduct an in-situ bioremediation pilot study in the Residential Area of the DWA Plume.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 01/07/2015

DWA PLUME (Continued) **S101272669**

Comments: Amendment 2

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/04/2015
Comments: Work order to add additional soil gas and groundwater samples.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 09/12/2014
Comments: work order amendment

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 01/15/2015
Comments: Contract 14-T3907 authorizes activities for conducting a responsible party search at the residential area of the DWA Plume.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 12/21/2015
Comments: Contract for sampling indoor air in the DWA Plume.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 01/05/2016
Comments: Work order for indoor air sampling in the Cedar Avenue area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/09/2016
Comments: Stop work order because contract expired.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 03/13/2017
Comments: Requisition for VI mitigation in Cedar Ave industrial area submitted 3/13/2017.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/01/2017
Comments: Letters to residents of the Cedar Avenue area in the DWA Plume requesting consent to access property to collect indoor air samples.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/22/2014

DWA PLUME (Continued) **S101272669**

Comments:	Various letters to individuals requesting to access and sample private wells.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Work Order
Completed Date:	10/30/2017
Comments:	Contract 16-T4283 authorizes activities for conducting indoor air sampling at the Cedar Avenue residential area of the DWA Plume.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Work Order
Completed Date:	04/12/2018
Comments:	DTSC letter releasing Engineering/Remediation Resources Group, Inc. from Contract No. 16-T4289. Vapor intrusion mitigation systems were to be installed in the Cedar Avenue residential area; however, the work was not required or performed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract
Completed Date:	06/23/2017
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date:	02/20/2015
Comments:	Time extension CFA
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Access Agreement
Completed Date:	10/20/2014
Comments:	Access agreement to sample well on PG&E property
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date:	03/07/2017
Comments:	Requisition approved for indoor air sampling.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract
Completed Date:	05/03/2017
Comments:	Fully-executed contract for SGI Indoor Air Sampling at San Leandro Plume $40k
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	07/25/2014
Comments:	Various letters requesting access to sample private wells.
Completed Area Name:	PROJECT WIDE

DWA PLUME (Continued) **S101272669**

Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 03/23/2018
Comments: Fully-executed contract dated 3/23/2018.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 07/20/2018
Comments: DTSC issued Work Order No. 1 under Contract 17-T4438 to Apex Companies, Inc. The activities to be performed under the Work Order are for the purpose of better defining the lateral extent of groundwater and soil gas plumes encroaching on the DWA Plume Residential Area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 03/23/2018
Comments: Fully-executed Contract 17-T4437 between the Department of Toxic Substances Control and the Engineering/Remediation Resources Group, Inc. The Contract scope of work consists of preparing and implementing a workplan for in situ bioremediation by groundwater injection and performing pre- and post-injection groundwater monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 10/21/2011
Comments: Workplan for groundwater sampling approved.

Completed Area Name: San Leandro Boulevard Area
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 03/13/2002
Comments: Approved RAW for the contamination located next to 2481 San Leandro Boulevard which requires the excavation and offsite disposal of soil contaminated with TCE and PCE.

Completed Area Name: San Leandro Boulevard Area
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 11/12/2002
Comments: Completed RA. Between August 1 and August 26, 2002, DTSC's contractor conducted a removal action using state funds at the San Leandro Source Area. Approximately 500 cubic yards of soil contaminated with volatile organic compounds (VOCs) primarily trichloroethene (TCE) and tetrachloethene (PCE) was excavated from the following locations: 1) the 1600 square foot area adjacent to San Leandro Boulevard (to a depth of 7 feet), and 2) the 100 square foot area extending into San Leandro Boulevard (to a depth of 15 feet).

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 08/04/2005

DWA PLUME (Continued) **S101272669**

Comments:	Workplan to conduct soil gas investigation at the residential area accepted.
Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	03/09/2006
Comments:	Soil gas investigation found elevated tetrachloroethene(PCE) soil gas concentrations in the vicinity of Monterey Boulevard which appear to correlate with high PCE concentrations in groundwater. The report recommends addition soil gas investigation and possible treatment of groundwater to reduce concentrations.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	12/29/1995
Comments:	Hydrogeology of Central San Leandro Remedial Investigation of the Regional Groundwater Contamination, San Leandro Plume.
Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	03/09/2006
Comments:	Volatile organic compounds are present in the residential area and are comparable to 2003 results.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	10/22/2014
Comments:	Site visit during soil vapor probe installation and soil vapor sampling.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	03/09/2006
Comments:	VOCS are still present in the San Leandro Residential area at concentrations comparable to the historical data.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	04/11/2006
Comments:	volatile organic compounds (VOCS) are still present in the DWA Plume Residential area at concentrations comparable to the historical data.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	07/20/2006
Comments:	VOCS are still present in the San Leandro Residential area at concentrations comparable to the historical data.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

DWA PLUME (Continued) **S101272669**

Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 02/28/1995
Comments: Public Participation Plan for the San Leandro Plume approved.

Completed Area Name: San Leandro Boulevard Area
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 12/20/2004
Comments: Pilot Study was completed at 2 locations in San Leandro Boulevard area using HRC and DHE bacteria. One location was in the Cherry Street and the other location was in the Hudson SIte.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 12/20/2004
Comments: Pilot Study was completed using HRC and DHE bacteria to treat groundwater at 2 locations in the DWA plume. One location was in the high PCE area in the residential area and the other location was near Aladdin Street near U.S. Can Site.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 11/10/2005
Comments: Groundwater sampling completed.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 02/27/2006
Comments: Groundwater Sampling completed.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/30/2006
Comments: Passive diffusion bag (PDB) sampler installed into the monitoring wells on May 4, 2006. PDBs were retrieved after equilibration on May 22, 2006.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 07/25/2003
Comments: Tetrachloroethene (PCE) concentrations are 1 to 2 orders of magnitude less downgradient of the high PCE concentration area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 03/29/1995
Comments: Groundwater sampling was conducted at 41 locations in the indutrial area of San Leandro. Trichloroethylene, tetrachloroethylene and cis-1,2-dichloroethylene were detected.

Completed Area Name: San Leandro Toe of the Plume

DWA PLUME (Continued) **S101272669**

Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 08/30/2001
Comments: 25 cone penetrometer tests were conducted in the toe of the plume. Tetrachloroethene and trichloroethene were detected.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 08/09/2001
Comments: Seven monitoring wells in the residential area were sampled. Tetrachloroethene and trichloroethene and were detected in some wells. Not reported

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 05/19/2006
Comments: DTSC prepared HRC injection workplan to inject HRC and HRC-X at 2 locations in San Leandro Residential Area.

Completed Area Name: San Leandro Boulevard Area
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 01/31/2002
Comments: Fact Sheet for Draft RAW for soils

Completed Area Name: San Leandro Boulevard Area
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 01/31/2002
Comments: Public Notice for Draft RAW for Soils

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/19/2006
Comments: HRC Injection completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 12/13/1989
Comments: The purpose of this investigation was to evaluate the regional hydrogeologic conditions in the San Leandro area so that data collected at the 1465 Factor Avenue and 750 139th Avenue Sites can be evaluated within a larger hydrogeologic context.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 10/13/1989
Comments: The Investigations indicate the presence of volatile organic compounds in shallow groundwater beneath the vicinity of the 750 139th Avenue Site. Groundwater in the intermediate-depth zone was impacted at one location. Several metals (barium, cadmium, chromium, and lead) were also present at levels drinking water standards.

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Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/17/1987
Comments: A plume of volatile organics exists in the shallow groundwater beneath 750 139th Avenue. The source of contamination is unknown and probably is not located at 750 139th Avenue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/20/1987
Comments: Evaluation of the soil gas investigation results indicates one and possibly two areas of volatile organic compounds and total hydrocarbon soil gas contamination near 750 139th Avenue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 01/20/1993
Comments: Upper groundwater is contaminated with chlorinated volatile organic compounds at a number of locations throughout the study area. The data show that the contaminated groundwater has migrated and is continuing to migrate off-site areas to the west/southwest.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 07/23/1993
Comments: Cone Penetrometer Testing, Hydropunch Groundwater Sampling, and Coordinated Monitoring Well Sampling results are presented in this report. Evaluation of this data is included in the Remedial investigation report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 12/29/1993
Comments: The Investigations indicate the presence of volatile organic compounds in shallow groundwater, primarily trichloroethene (TCE) and tetrachloethene (PCE). Shallow groundwater plume was more than a mile wide and two miles long. The plume is commingled plume with multiple source areas.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 04/28/1995
Comments: Groundwater sampling was conducted at 34 locations in the residential area of San Leandro. Trichloroethylene, tetrachloroethylene and cis-1,2-dichloroethylene were detected.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 10/20/1995
Comments: Seven monitoring wells were installed in the residential area. Soil

DWA PLUME (Continued) **S101272669**

volatile organic compound (VOC)concentrations were below regulatory levels. VOCs were detected in groundwater. Soil gas and ambient air sample had some detections of VOCs and these data will be used in the risk assessment.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 04/01/1997
Comments: All estimated cancer and non-cancer risks for human receptors were within acceptable risk range. This risk estimate assumes that the shallow groundwater will not be used for domestic purposes.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 09/01/1988
Comments: The fact sheet describes activities associated with Phase II remedial investigations at 750 139th Avenue and 1465 Factor Avenue Sites.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 10/01/1991
Comments: The fact sheet provides information about well water testing in San Leandro.

Completed Area Name: Century Plating Area
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 06/22/2006
Comments: DTSC prepared HRC Injection Work Plan.

Completed Area Name: Century Plating Area
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 08/31/2006
Comments: BDI Injection was completed.

Completed Area Name: Century Plating Area
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 10/11/2006
Comments: Completion report approved which documents the activities relating to the injection of Hydrogen Releasing Compound and BDI bacteria.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 09/15/2006
Comments: Completion report approved which documents the activities relating to the injection of Hydrogen Releasing Compound.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 01/10/2007

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Comments:	DTSC prepared an amendment to the HRC injection Workplan for BDI bacteria injection.
Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	01/19/2007
Comments:	Fieldwork completed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	09/06/2006
Comments:	This site (2700 Merced Street) is located within the DWA Plume and volatile organic compounds (VOCs) above drinking water standards has been detected in groundwater.
Completed Area Name:	San Leandro Toe of the Plume
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	08/05/2004
Comments:	Groundwater sampling of 4 wells indicate 3 of the wells have volatile organic compounds exceeding drinking water standards.
Completed Area Name:	San Leandro Toe of the Plume
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	06/11/2003
Comments:	Four Monitoring wells were installed in the toe of the DWA Plume area and 3 of the wells have volatile organic compounds exceeding drinking water standards.
Completed Area Name:	San Leandro Toe of the Plume
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	09/19/2003
Comments:	Groundwater sampling of 4 wells indicate 3 of the wells have volatile organic compounds exceeding drinking water standards.
Completed Area Name:	San Leandro Toe of the Plume
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	02/11/2004
Comments:	Groundwater sampling of 4 wells indicate 3 of the wells have volatile organic compounds exceeding drinking water standards.
Completed Area Name:	San Leandro Toe of the Plume
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	05/11/2004
Comments:	Groundwater sampling of 4 wells indicate 3 of the wells have volatile organic compounds exceeding drinking water standards.
Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Workplan
Completed Date:	02/13/2007

DWA PLUME (Continued) **S101272669**

Comments: Amend the existing workplan to add monitoring of 10 wells in the residential area and 4 wells in the toe of the Plume.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/16/2007
Comments: Passive diffusion bag (PDB) sampler installed into the monitoring wells on April 4 and 6, 2007. PDBs were retrieved after equilibration on April 27, 2007 from monitoring wells within the DWA Plume Residential Area.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 07/16/2007
Comments: Passive diffusion bag (PDB) sampler installed into the monitoring wells on April 27, 2007. PDBs were retrieved after equilibration on July 28, 2007 from monitoring wells within the DWA Plume Residential and Toe of the Plume areas.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/17/2007
Comments: Passive diffusion bag (PDB) sampler installed into the monitoring wells on July 18, 2007. PDBs were retrieved after equilibration on October 17, 2007 from monitoring wells within the DWA Plume Residential Area.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 01/15/2008
Comments: Passive diffusion bag (PDB) sampler installed into the monitoring wells on October 17, 2007. PDBs were retrieved after equilibration on January 17, 2008 from monitoring wells within the DWA Plume Residential and Toe of the Plume areas.

Completed Area Name: San Leandro Toe of the Plume
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/16/2007
Comments: Passive diffusion bag (PDB) sampler installed into the monitoring wells on April 4 and 6, 2007. PDBs were retrieved after equilibration on April 27, 2007 from monitoring wells within the DWA Plume Toe of the Plume area

Completed Area Name: San Leandro Toe of the Plume
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/17/2007
Comments: Passive diffusion bag (PDB) sampler installed into the monitoring wells on July 18, 2007. PDBs were retrieved after equilibration on October 17, 2007 from monitoring wells within the DWA Plume Toe of the Plume area.

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Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 07/16/2007
Comments: Results of the post BDI injection ground water sampling event indicate that PCE concentrations in most wells are still fluctuating within the historical ranges. However, R-1 and MW-R51, showed significant decreases of PCE concentrations after the HRC/BDI injections and significant increases in cis-1,2-DCE concentrations. Increase in cis-1,2 DCE concentrations, whcih is a daughter product of dechlorination of PCE, indicates active ongoing dechlorination in wells R1 and MW-R51, which can be directly related to the injection of HRC and BDI.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/26/2007
Comments: Results of the post BDI injection ground water sampling event indicate that PCE concentrations in most wells are still fluctuating within the historical ranges. However, R-1 and MW-R51, showed significant decreases of PCE concentrations after the HRC/BDI injections and significant increases in cis-1,2-DCE concentrations.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 12/17/2007
Comments: Results appear to be consistent with previous results showing significant decreases in parent compounds and increases in daughter products.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/27/2008
Comments: Results appear to be consistent with previous results showing significant decreases in parent compounds and increases in daughter products.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/27/2012
Comments: Groundwater monitoring was conducted in the DWA plume and overall VOC concentrations are in a decreasing trend, except for PCE in the residential area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 04/08/2014
Comments: Remedial Investigation Report summarizes previous environmental and hydrogeologic investigations, removal action workplans, or remedial action plans, treatability studies and provide recommendations for next steps and future work.

DWA PLUME (Continued) **S101272669**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 04/28/2015
Comments: Risk was evaluated regarding use of groundwater for irrigation and for recreational uses. The risk evaluation indicates that water can be used for irrigation, but should not be used for recreational uses such as swimming pools.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 09/11/2014
Comments: Groundwater monitoring workplan outlines activities to further characterize the VOC-impacted DWA Plume

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 10/14/2014
Comments: Soil Vapor Sampling Work Plan (Work Plan) for the DWA Plume located within the DWA Plume Study Area in San Leandro, California. The purpose of this Work Plan is to further characterize soil vapor conditions in the DWA Plume through sampling and laboratory analysis of select volatile organic compounds (VOCs).

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 04/07/2016
Comments: Workplan to conduct indoor air sampling in 20 homes in the Cedar Avenue area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 10/13/2014
Comments: Work notice to inform the local community about soil gas sampling in the DWA Plume area located between Washington Avenue, Floresta Boulevard, Marina Boulevard and the San Francisco Bay in San Leandro, CA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 05/11/2015
Comments: Shallow soil vapor samples are elevated in several locations, follow up is required and will include additional sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 05/11/2015
Comments: Groundwater concentrations are consistent with historical concentrations.

Completed Area Name: PROJECT WIDE

DWA PLUME (Continued) **S101272669**

Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 07/23/2015
Comments: Workplan addresses follow up sampling of soil gas and groundwater based on previous investigation results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 08/07/2015
Comments: Work notice for additional soil gas sampling in three areas of the DWA plume

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 11/20/2015
Comments: Report documents supplemental soil gas sampling conducted during 2015. One new hot spot area identified and recommended for indoor air sampling.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 02/28/2018
Comments: Resampling fieldwork completed on 2/28/2018.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 03/30/2018
Comments: Report presents results of indoor air sampling events in November 2017 and February 2018. Sampling events were conducted in a portion of the residential area of the DWA Plume in the Cedar Avenue vicinity (the Residential Area).

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 02/20/2019
Comments: The purpose of the Soil Vapor and Groundwater Sampling Work Plan (Work Plan) is to define the lateral extent of the elevated soil vapor that was detected in 2015 in the Cedar Avenue vicinity and to investigate groundwater contamination in the same area. The Work Plan presents the site background, scope of work, data evaluation and reporting, and anticipated schedule.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 12/03/2019
Comments: Primary volatile organic compounds (VOCs) concentrations in the grab groundwater samples are generally consistent with the conceptualization of the regional DWA Plume as presented in the 2015 Groundwater Monitoring Report and historical concentrations. Groundwater concentrations do not correlate well with soil vapor concentrations in the collocated boreholes. The site-specific

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groundwater/soil vapor correlation for tetrachloroethene and trichloroethene concentrations varies over several order of magnitude for the different boreholes; hence, establishing a uniform site-specific attenuation factor is not recommended.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 06/16/2018
Comments: Contract 17-T4438 authorizes activities required to perform a volatile organic carbon source delineation investigation in the Residential Area of the DWA Plume in San Leandro.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Litigation Support
Completed Date: 04/16/2020
Comments: Disallowance decision letter provides DTSC s Contract Manager reasons regarding the September 6, 2019 dispute concerning Contract 17-T4438 Work Order 1 Invoice 207595 disallowance in accordance with Section 12 of Exhibit D of the Contract 17-T4438.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 05/14/2019
Comments: No exposure symptoms noted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Orphan Site Designation
Completed Date: 10/16/2019
Comments: Orphan Memo approved, signed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 12/10/2019
Comments: All work under Contract No. 17-T4438 for the San Leandro - DWA Plume site is complete.

Completed Area Name: San Leandro Residential Area
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 01/08/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Litigation Support
Completed Date: 12/09/2020
Comments: DTSC proposes a settlement with Apex Companies, LLC (Apex) regarding Contract 17-T4438 Work Order 1 - Invoice 207595 Disallowance Decision. DTSC proposes to pay Apex $3,298.75, which corresponds to half of the disallowed amount if Apex and DTSC sign a Settlement Agreement and Release of Claims.

DWA PLUME (Continued) **S101272669**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract
Completed Date:	12/10/2020
Comments:	Contract 20-T481 with RMD. Contract scope of work consists of technical consultative services to provide deliverable necessary to perform additional remedial investigations at the DWA Plume site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Work Order
Completed Date:	12/18/2020
Comments:	Contract 20-T4841 Work Order # 1 with RMD. Work Order #1 scope of work consists of three tasks as follows: Task 1 Development of a Current Conditions Report Task 2 Development of a Supplemental Site Characterization Workplan Task 3 Participation in meetings and teleconferences as necessary
Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Work Notice
Completed Date:	04/04/2019
Comments:	Work Notice for a Soil Vapor and Groundwater Sampling Investigation conducted at Cedar Avenue vicinity in San Leandro.
Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	05/28/2019
Comments:	The activities included in the Soil Vapor and Groundwater Sampling Workplan were completed. Investigation-derived waste was profiled and characterized as non-hazardous. The temporary waste storage area was disassembled on May 24, 2019
Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	09/13/2019
Comments:	Field activities consisted of installation of three temporary soil vapor probes and soil vapor sampling 48-hours after installation.
Completed Area Name:	San Leandro Residential Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Work Notice
Completed Date:	08/30/2019
Comments:	Work notice informing local community about soil vapor investigation to be conducted in the Juniper Street Vicinity in the DWA Plume Residential Area.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	09/26/2019
Comments:	Historical San Leandro Sandborn Maps were scanned into PDF format and saved in the DTSC server (M Drive)
Completed Area Name:	PROJECT WIDE

DWA PLUME (Continued) **S101272669**

Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date: 12/11/2019
Comments: According to the information provided, the current building structure was constructed in the late 1970 s and it has been used for food processing by Saag s since that time. There were no historical records or other indications of the storage or use of significant quantities of hazardous materials at the Property. Groundwater monitoring event conducted as part of the Phase II investigation shows that volatile organic chemicals (VOCs)-impacted groundwater migrating onto the Property derive from upgradient source areas of the DWA Plume (regional VOC-impacted groundwater plume), consistent with the historical groundwater data.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Plan
Future Due Date: 2023
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedial Action Completion Report
Future Due Date: 2024
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2026
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Site Characterization Report
Future Due Date: 2021
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

Calsite:
Name: DWA PLUME
Address: SAN LEANDRO (GROUNDWATER CONTAMINATION)
City: SAN LEANDRO
Region: BERKELEY
Facility ID: 01990002
Facility Type: STATE
Type: STATE FUNDED SITE
Branch: NC
Branch Name: NORTH COAST
File Name: Not reported
State Senate District: 12311999
Status: ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Not Listed
SIC Code: 99
SIC Name: NONCLASSIFIABLE ESTABLISHMENTS
Access: Uncontrolled
Cortese: Not reported
Hazardous Ranking Score: Not reported

DWA PLUME (Continued) **S101272669**

Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Confirmed
Staff Member Responsible for Site:	JRANDENI
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	SF
Region Water Control Board Name:	SAN FRANCISCO BAY
Lat/Long Direction:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	Not reported
State Assembly District Code:	18
State Senate District Code:	10
Facility ID:	01990002
Activity:	PRP
Activity Name:	POTENTIAL RESPONSIBLE PARTY SEARCH
AWP Code:	BASE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	01201993
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01990002
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	STREE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	11122002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	500
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	ORC WAS INJECTED AT THE GROUNDWATER INTERFACE TO CHEMICALLY REDUCETHE VOCS FOUND. ONGOING MONITORING WILL OCCUR UNDER A IN-SITU GWPILOT

DWA PLUME (Continued) **S101272669**

	STUDY BEING CONDUCTED.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01990002
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	STREE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	03132002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01990002
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	07012005
Revised Due Date:	07012006
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01990002
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	Not reported

DWA PLUME (Continued) **S101272669**

Proposed Budget:	0
AWP Completion Date:	12312005
Revised Due Date:	12012006
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01990002
Activity:	DES
Activity Name:	DESIGN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	06302006
Revised Due Date:	06302007
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01990002
Activity:	RMDL
Activity Name:	REMEDIAL ACTION (RAP REQUIRED)
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	12312007
Revised Due Date:	12312007
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE

DWA PLUME (Continued) **S101272669**

Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01990002
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	12312008
Revised Due Date:	12312008
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01990002
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	NOE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	03132002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0

DWA PLUME (Continued) **S101272669**

For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01990002
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	ISE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	05291992
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	SAN LEANDRO (GROUNDWATER CONTAMINATION)
Alternate City,St,Zip:	SAN LEANDRO, CA 94578
Alternate Address:	750 139TH AVENUE
Alternate City,St,Zip:	SAN LEANDRO, CA 94578
Alternate Address:	1465 FACTOR AVENUE
Alternate City,St,Zip:	SAN LEANDRO, CA 94577
Background Info:	DTSC was conducting six site specific investigations in San Leandro. Investigations at these sites indicated that a regional shallow groundwater contamination exist. A Public Health Advisory was issued, advising residents not to use private wells for domestic purposes unless tested regularly. Contaminants of primary concern are trichloroethylene(TCE), perchloroethylene(PCE), dichloroethylene and related compounds. They as well as metals and nitrate have all been found above the state drinking water standards. Domestic water is supplied by East Bay Municipal Utility District. However, up to 2000 private wells may exist in San Leandro. In 1993 and 1995 DTSC conducted a series of investigations and determined the extent of the plume to be 1 mile wide and 2 miles long. DTSC is conducting a number of in-situ pilot studies to evaluate techniques to treat the underlying groundwater. groundwater. For site specific information see 1465 Factor Avenue, Hudson I.C.S., 750 139th Avenue Site, Singer Friden, Staefa, U.S. Can Company, Former Transcon Lines Site, Simmons Site, Dana Corporation Site, Cintas Corporation Site and Century Plating.
Comments Date:	01201993
Comments:	Interim Groundwater Contamination Report for Central San
Comments Date:	01201993
Comments:	Leandro.
Comments Date:	01201995
Comments:	Data Report: Remedial Investigation of Soil Contamination,

DWA PLUME (Continued) **S101272669**

Comments Date:	01201995
Comments:	Century Plating Site (3 Volumes).
Comments Date:	03132002
Comments:	Approved RAW for the contamination located next to 2481 San
Comments Date:	03132002
Comments:	Leandro Boulevard which requires the excavation and offsite
Comments Date:	03132002
Comments:	disposal of soil contaminated with TCE and PCE.
Comments Date:	05291992
Comments:	Issued Imminent and Substantial Endangerment Determination.
Comments Date:	07231993
Comments:	Data Report, Remedial Investigation of Regional Groundwater
Comments Date:	07231993
Comments:	Contamination.
Comments Date:	11122002
Comments:	Completed RA. Between August 1 and August 26, 2002, DTSC's
Comments Date:	11122002
Comments:	contractor conducted a removal action using state funds at the
Comments Date:	11122002
Comments:	San Leandro Source Area. Approximately 500 cubic yards of soil
Comments Date:	11122002
Comments:	contaminated with volatile organic compounds (VOCs) primarily
Comments Date:	11122002
Comments:	trichloroethene (TCE) and tetrachloethene (PCE) was excavated
Comments Date:	11122002
Comments:	from the following locations: 1) the 1600 square foot area
Comments Date:	11122002
Comments:	adjacent to San Leandro Boulevard (to a depth of 7 feet), and 2)
Comments Date:	11122002
Comments:	the 100 square foot area extending into San Leandro Boulevard
Comments Date:	11122002
Comments:	(to a depth of 15 feet).
Comments Date:	12291993
Comments:	Hydrogeology of Central San Leandro Remedial Investigation
Comments Date:	12291993
Comments:	of the Regional Groundwater Contamination, San Leandro
Comments Date:	12291993
Comments:	Plume.
ID Name:	CALSTARS CODE
ID Value:	200327
Alternate Name:	SAN LEANDRO REGIONAL PLUME
Alternate Name:	SINGER-FRIDEN (OFF-SITE)
Alternate Name:	750 139TH SITE (OFF-SITE)
Alternate Name:	1465 FACTOR AVENUE SITE (OFF-SITE)
Alternate Name:	DWA PLUME
Alternate Name:	Not reported
Special Programs Code:	Not reported
Special Programs Name:	Not reported

CORTESE:

Name:	DWA PLUME
Address:	SAN LEANDRO (GROUNDWATER CONTAMINATION)
City,State,Zip:	SAN LEANDRO, CA 94578
Region:	CORTESE
Envirostor Id:	1990002
Global ID:	Not reported
Site/Facility Type:	STATE RESPONSE

DWA PLUME (Continued) **S101272669**

Cleanup Status:	ACTIVE
Status Date:	12/31/1999
Site Code:	200327
Latitude:	37.705851
Longitude:	-122.15300
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	envirostor
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Haz Waste & Substances Sites

CERS:

Name:	DWA PLUME
Address:	SAN LEANDRO (GROUNDWATER CONTAMINATION)
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	336884
CERS ID:	01990002
CERS Description:	State Response

Affiliation:

Affiliation Type Desc:	Supervisor
Entity Name:	Karen Toth
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Lead Project Manager
Entity Name:	Moises Carvalho
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	BERKELEY
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

I75 **ONE HUNDRED THIRTY-NINTH STREET (NO. 750) - SAN LE** **CA BOND EXP. PLAN** **S100833366**
NNE **750 139TH STREET** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578**
0.131 mi.
694 ft. **Site 1 of 11 in cluster I**

Relative:
Higher

Actual:
44 ft.

CA BOND EXP. PLAN:

Reponsible Party:	DETAILED SITE EXPENDITURE PLAN
Project Revenue Source Company:	Not reported
Project Revenue Source Addr:	Not reported
Project Revenue Source City,St,Zip:	Not reported
Project Revenue Source Desc:	Currently there are no identifiable responsible parties (RPs). Therefore, Bond funds are being used to investigate and remediate the site. If during the investigation responsible parties are identified, DHS will pursue appropriate enforcement actions.
Site Description:	The One Hundered Thirty-Ninth Street site is a contaminated shallow aquifer.
Hazardous Waste Desc:	Chemicals found onsite include trichloroethene (TCE) and tetrachloroethene (PCE).
Threat To Public Health & Env:	Ground water is the pathway for contaminant migration. Numerous private wells present possible routes of exposure. Potential receptors for exposure to ground water contaminants include residents of San Leandro who have shallow water wells on their property.
Site Activity Status:	The site is currently undergoing remedial investigation. Monitoring wells and stratigraphic borings will be installed.

I76 **WEAVER PROPERTY** **CPS-SLIC** **S101641794**
NNE **750 139TH ST** **CERS** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578**
0.131 mi.
694 ft. **Site 2 of 11 in cluster I**

Relative:
Higher

Actual:
44 ft.

SLIC REG 2:

Region:	2
Facility ID:	01S0033
Facility Status:	Leak being confirmed
Date Closed:	Not reported
Local Case #:	Not reported
How Discovered:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Date Confirmed:	Not reported
Date Prelim Site Assmnt Workplan Submitted:	Not reported
Date Preliminary Site Assessment Began:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

CPS-SLIC:

Name:	WEAVER PROPERTY
Address:	750 139TH ST
City,State,Zip:	SAN LEANDRO, CA 94578
Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	06/04/2009
Global Id:	SLT2O291182
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.7087878152888

WEAVER PROPERTY (Continued) **S101641794**

Longitude:	-122.143156431714
Case Type:	Cleanup Program Site
Case Worker:	UUU
Local Agency:	Not reported
RB Case Number:	01S0033
File Location:	Not reported
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern:	Dichloroethene (DCE), Tetrachloroethylene (PCE), Trichloroethylene (TCE), DDD / DDE / DDT
Site History:	The Embarcadero Cove site is an old industrial site located on the Oakland waterfront. Much of the early history of the site is uncertain, including the filling of the site and the dates and nature of its earliest occupants and usages. The Port of Oakland has leased the site to a number of industrial operations including several oil companies and wood treating operations. The site was leased to petroleum handling companies before 1954, including Ventura Oil and Texas Company (Texaco), and used for storage, handling, and blending of motor fuels and lubricants and drum cleaning and reconditioning. In 1955, the site was then leased to Wood Treating Chemical Company and Associated Sales and Supplies, and used for storing and formulating wood preservatives (primarily pentachlorophenol) and agricultural chemicals. The Wood Treating Chemical Company subleased the site between 1963 and 1965 to Garrity Company, Inc. before being fully leased by the Port of Oakland in 1966. Garrity's operation included the handling of agricultural chemicals including pentachlorophenol, wood preservatives, pesticides, and herbicides. After 1970, all the buildings on the site were demolished.

Click here to access the California GeoTracker records for this facility:

CERS:

Name:	WEAVER PROPERTY
Address:	750 139TH ST
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	248078
CERS ID:	SLT2O291182
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

I77 **CINTAS/DEDOMINICO SITE** **HIST Cal-Sites** **S101661359**
North **777 139TH AVENUE** **EMI** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578** **CERS**
0.140 mi.
741 ft. **Site 3 of 11 in cluster I**

Relative:
Higher

Actual:
44 ft.

Calsite:

Name:	CINTAS/DEDOMINICO SITE
Address:	777 139TH AVENUE
City:	SAN LEANDRO
Region:	BERKELEY
Facility ID:	01890017
Facility Type:	RP
Type:	RESPONSIBLE PARTY
Branch:	NC
Branch Name:	NORTH COAST
File Name:	CINTAS CORPORATION
State Senate District:	08041995
Status:	ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
NPL:	Not Listed
SIC Code:	89
SIC Name:	MISCELLANEOUS SERVICES
Access:	Controlled
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Suspected
Staff Member Responsible for Site:	JRANDENI
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	SF
Region Water Control Board Name:	SAN FRANCISCO BAY
Lat/Long Direction:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	Not reported
State Assembly District Code:	18
State Senate District Code:	10
Facility ID:	01890017
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	NEG'D
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06261997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported

CINTAS/DEDOMINICO SITE (Continued) **S101661359**

For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01890017
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	GW
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	04282003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01890017
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08042004
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01890017
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	Not reported
Proposed Budget:	0

CINTAS/DEDOMINICO SITE (Continued) **S101661359**

AWP Completion Date:	10312004
Revised Due Date:	08302005
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01890017
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	NOE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08042004
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01890017
Activity:	DISC
Activity Name:	DISCOVERY
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	03301985
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0

CINTAS/DEDOMINICO SITE (Continued) **S101661359**

Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01890017
Activity:	PPP
Activity Name:	PUBLIC PARTICIPATION PLAN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	11301986
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01890017
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	I&SE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	12221992
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0

CINTAS/DEDOMINICO SITE (Continued) **S101661359**

Unknown Type:	0
Facility ID:	01890017
Activity:	PPP
Activity Name:	PUBLIC PARTICIPATION PLAN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	02281995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01890017
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	SOIL
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	05221997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01890017
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	SOIL
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06261997

CINTAS/DEDOMINICO SITE (Continued) **S101661359**

Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01890017
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	SOIL
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06291998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	22
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	EXCAVATION AND OFFSITE DISPOSAL OF CONTAMINATED SOIL AND INSTALLATIONOF A SOIL VAPOR EXTRACTION SYSTEM.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01890017
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	06302005
Revised Due Date:	11302005
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported

CINTAS/DEDOMINICO SITE (Continued) **S101661359**

Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	777 139TH AVENUE
Alternate City,St,Zip:	SAN LEANDRO, CA 94578
Background Info:	Cintas Corporation site is located at 777 139th Avenue, San Leandro, Alameda County. From February 1971 and 1983, Ross Rental Services leased the property and established a clothes-cleaning operation using tetrachloroethylene (PCE). Operation equipment included two 100-pound dry cleaning units. In 1983, Cintas Corporation acquired the business and converted all clothes cleaning operations to a water-wash laundry without the dry cleaning units. Trichloroethylene (TCE), PCE and oil grease were detected in soil during removal of gasoline and waste oil tanks in May 1986.
Comments Date:	06291998
Comments:	were disposed offsite. Soil vapor extraction system operating at
Comments Date:	06291998
Comments:	140 standard cubic feet per minute.
Comments Date:	08042004
Comments:	Approved RAW for the underlying groundwater contamination. Data
Comments Date:	08042004
Comments:	indicates that contamination is breaking down. Therefore, final
Comments Date:	08042004
Comments:	remedy will include institutional controls and groundwater
Comments Date:	08042004
Comments:	monitoring.
Comments Date:	12221992
Comments:	Issued I&SE Order to the 139th Avenue Sites.
Comments Date:	03172000
Comments:	Approved closure of the SVE system. The confirmation soil
Comments Date:	03172000
Comments:	sampling results indicated that operation of the SVE system
Comments Date:	03172000
Comments:	reduced VOC concentrations in soil below the site cleanup level
Comments Date:	03172000
Comments:	in all tested locations. Estimated 187 pounds of VOCs were
Comments Date:	03172000
Comments:	removed during the 19 months period of operation.
Comments Date:	05221997
Comments:	Approved RIFS. PCE contamination under the building and near
Comments Date:	05221997
Comments:	sewer line outside the building was identified. Sample results
Comments Date:	05221997
Comments:	confirmed earlier tests and identified two areas one near the
Comments Date:	05221997
Comments:	sewer line outside the building and the other under the building
Comments Date:	05221997
Comments:	which have high 14 parts per million (ppm) tetrachloroethylene.
Comments Date:	06261997
Comments:	Approved RAW which requires installation of two horizontal soil
Comments Date:	06261997

CINTAS/DEDOMINICO SITE (Continued) **S101661359**

Comments:	vapor extraction wells under the building and excavation of
Comments Date:	06261997
Comments:	contaminated soil near sewer line outside of the building. A
Comments Date:	06261997
Comments:	negative declaration was prepared for this project.
Comments Date:	06291998
Comments:	Completed RA. Soil Vapor Extraction System working well. 21
Comments Date:	06291998
Comments:	cubic yards of excavated soil containing tetrachloroethylene
ID Name:	CALSTARS CODE
ID Value:	200642
Alternate Name:	CINTAS CORPORATION
Alternate Name:	CINTAS/DEDOMINICO SITE
Alternate Name:	Not reported
Special Programs Code:	Not reported
Special Programs Name:	Not reported

EMI:

Name:	CINTAS
Address:	777 139TH AVENUE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	1987
County Code:	1
Air Basin:	SF
Facility ID:	3355
Air District Name:	BA
SIC Code:	7213
Air District Name:	BAY AREA 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

Name:	CINTAS
Address:	777 139TH AVENUE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	1990
County Code:	1
Air Basin:	SF
Facility ID:	3355
Air District Name:	BA
SIC Code:	7213
Air District Name:	BAY AREA 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

CINTAS/DEDOMINICO SITE (Continued) **S101661359**

Name:	CINTAS
Address:	777 139TH AVENUE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	1998
County Code:	1
Air Basin:	SF
Facility ID:	3355
Air District Name:	BA
SIC Code:	7213
Air District Name:	BAY AREA 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

Name:	CINTAS
Address:	777 139TH AVENUE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	1999
County Code:	1
Air Basin:	SF
Facility ID:	3355
Air District Name:	BA
SIC Code:	7213
Air District Name:	BAY AREA 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

Name:	CINTAS
Address:	777 139TH AVENUE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	2000
County Code:	1
Air Basin:	SF
Facility ID:	3355
Air District Name:	BA
SIC Code:	7213
Air District Name:	BAY AREA 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

CINTAS/DEDOMINICO SITE (Continued) **S101661359**

Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

CERS:
Name: CINTAS
Address: 777 139TH AVENUE
City,State,Zip: SAN LEANDRO, CA 94578-3218
Site ID: 459591
CERS ID: 110001150101
CERS Description: US EPA Air Emission Inventory System (EIS)

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: BARBARA COOK DEPT OF TOXIC SUBSTANCES CONT
Entity Title: Not reported
Affiliation Address: 700 HEINZ ST
Affiliation City: BERKELEY
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: CHERIE MCCAULOU SAN FRANCISCO BAY RWQCB REGN
Entity Title: Not reported
Affiliation Address: 1515 CLAY STREETNA SUITE 1400
Affiliation City: OAKLAND
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: BRIAN DELBECQ
Entity Title: Not reported
Affiliation Address: 777 139TH AVE
Affiliation City: SANLEANDRO
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: ENVIR MGMT
Entity Title: Not reported
Affiliation Address: 777 139TH AVE
Affiliation City: SANLEANDRO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

I78
North
1/8-1/4
0.140 mi.
741 ft.

WEST COAST CINTAS CORP
777 139TH AVE
SAN LEANDRO, CA 94578

Site 4 of 11 in cluster I

RCRA-SQG **1000391675**
CAD981379787

Relative:
Higher

Actual:
44 ft.

RCRA-SQG:

Date Form Received by Agency:	1986-02-19 00:00:00.0
Handler Name:	WEST COAST CINTAS CORP
Handler Address:	777 139TH AVE
Handler City,State,Zip:	SAN LEANDRO, CA 94578
EPA ID:	CAD981379787
Contact Name:	ENVIRONMENTAL MANAGER
Contact Address:	777 139TH AVE
Contact City,State,Zip:	SAN LEANDRO, CA 94578
Contact Telephone:	415-352-6330
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Other
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	CA
State District:	2
Mailing Address:	777 139TH AVE
Mailing City,State,Zip:	SAN LEANDRO, CA 94578
Owner Name:	CINTAS CORP
Owner Type:	Private
Operator Name:	NOT REQUIRED
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

WEST COAST CINTAS CORP (Continued) **1000391675**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2002-06-27 03:24:18.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CINTAS CORP
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

WEST COAST CINTAS CORP (Continued) **1000391675**

Historic Generators:
- Receive Date: 1986-02-19 00:00:00.0
- Handler Name: WEST COAST CINTAS CORP
- Federal Waste Generator Description: Small Quantity Generator
- State District Owner: CA
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 812199
- NAICS Description: OTHER PERSONAL CARE SERVICES

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

I79 **CINTAS OPERATION # 54** **CPS-SLIC** **S100948239**
North **777 139TH AVE** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578**
0.140 mi.
741 ft. **Site 5 of 11 in cluster I**

Relative: **Higher**

Actual: **44 ft.**

SLIC REG 2:
- Region: 2
- Facility ID: 01S0040
- Facility Status: Leak being confirmed
- Date Closed: Not reported
- Local Case #: Not reported
- How Discovered: Tank Closure
- Leak Cause: UNK
- Leak Source: UNK
- Date Confirmed: 7/10/1986
- Date Prelim Site Assmnt Workplan Submitted: Not reported
- Date Preliminary Site Assessment Began: Not reported
- Date Pollution Characterization Began: Not reported
- Date Remediation Plan Submitted: Not reported
- Date Remedial Action Underway: Not reported
- Date Post Remedial Action Monitoring Began: Not reported

I80 **CINTAS CORP #54** **CPS-SLIC** **S113004178**
North **777 139TH AVE** **HAZNET** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578** **HWTS**
0.140 mi.
741 ft. **Site 6 of 11 in cluster I**

Relative:
Higher

Actual:
44 ft.

CPS-SLIC:

Name:	CINTAS OPERATION
Address:	777 139TH AVENUE
City,State,Zip:	SAN LEANDRO, CA 94577
Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	05/23/1995
Global Id:	T10000013881
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.70984
Longitude:	-122.14488
Case Type:	Cleanup Program Site
Case Worker:	UUU
Local Agency:	Not reported
RB Case Number:	01S0040
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Total Petroleum Hydrocarbons (TPH)
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

HAZNET:

Name:	CINTAS CORP #54
Address:	777 139TH AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945783218
Contact:	RANJIT SINGH
Telephone:	5103526330
Mailing Name:	Not reported
Mailing Address:	777 139TH AVE
Year:	2015
Gepaid:	CAD981379787
TSD EPA ID:	CAD028409019
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.33
Year:	2014
Gepaid:	CAD981379787
TSD EPA ID:	CAD028409019
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	1.8765
Year:	2013
Gepaid:	CAD981379787
TSD EPA ID:	CAD980887418
CA Waste Code:	221 - Waste oil and mixed oil

CINTAS CORP #54 (Continued) **S113004178**

Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	1.938
Year:	2012
Gepaid:	CAD981379787
TSD EPA ID:	CAD980887418
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	1.96905
Year:	2011
Gepaid:	CAD981379787
TSD EPA ID:	CAD980887418
CA Waste Code:	222 - Oil/water separation sludge
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.4587
Year:	2011
Gepaid:	CAD981379787
TSD EPA ID:	CAD980887418
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.893
Year:	2010
Gepaid:	CAD981379787
TSD EPA ID:	CAD980887418
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.418
Year:	2010
Gepaid:	CAD981379787
TSD EPA ID:	CAD980887418
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.05
Year:	2010
Gepaid:	CAD981379787
TSD EPA ID:	CAD980887418
CA Waste Code:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0417
Year:	2010
Gepaid:	CAD981379787
TSD EPA ID:	CAD980887418
CA Waste Code:	222 - Oil/water separation sludge
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

CINTAS CORP #54 (Continued) **S113004178**

Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.4587

Click this hyperlink while viewing on your computer to access
35 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2000
Gen EPA ID:	CAD981379787
Shipment Date:	20000921
Creation Date:	12/13/2000 0:00:00
Receipt Date:	20000929
Manifest ID:	99664988
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000921
Creation Date:	12/13/2000 0:00:00
Receipt Date:	20000929
Manifest ID:	99664988
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

CINTAS CORP #54 (Continued) **S113004178**

Additional Code 5:	Not reported
Shipment Date:	20000921
Creation Date:	12/13/2000 0:00:00
Receipt Date:	20000929
Manifest ID:	99664988
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	1.8
Waste Quantity:	3600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000802
Creation Date:	10/23/2000 0:00:00
Receipt Date:	20000811
Manifest ID:	99342601
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.687
Waste Quantity:	1374
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000802
Creation Date:	10/23/2000 0:00:00
Receipt Date:	20000811
Manifest ID:	99342601
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591

CINTAS CORP #54 (Continued) **S113004178**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.229
Waste Quantity:	458
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20000802
Creation Date:	10/23/2000 0:00:00
Receipt Date:	20000811
Manifest ID:	99342601
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	2.29
Waste Quantity:	4580
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20000307
Creation Date:	5/23/2000 0:00:00
Receipt Date:	20000313
Manifest ID:	99053229
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	2.5

CINTAS CORP #54 (Continued) **S113004178**

Waste Quantity:	5000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000307
Creation Date:	5/23/2000 0:00:00
Receipt Date:	20000313
Manifest ID:	99053229
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000307
Creation Date:	5/23/2000 0:00:00
Receipt Date:	20000313
Manifest ID:	99053229
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.8
Waste Quantity:	1600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CINTAS CORP #54 (Continued) **S113004178**

Additional Info:

Year:	2003
Gen EPA ID:	CAD981379787
Shipment Date:	20031115
Creation Date:	7/30/2004 18:31:14
Receipt Date:	20031118
Manifest ID:	22321654
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LL
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	7.089
Waste Quantity:	1700
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030816
Creation Date:	8/5/2004 10:08:03
Receipt Date:	20030821
Manifest ID:	22322781
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	CLEAN HARBORS SAN JOSE LL
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	5.6295
Waste Quantity:	1350
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030510
Creation Date:	7/26/2004 18:30:41
Receipt Date:	20030512
Manifest ID:	22321550
Trans EPA ID:	TXR000050930

CINTAS CORP #54 (Continued) **S113004178**

Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	5.838
Waste Quantity:	1400
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20030308
Creation Date:	9/2/2003 18:31:45
Receipt Date:	20030311
Manifest ID:	22330898
Trans EPA ID:	TXR000050930
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	5.838
Waste Quantity:	1400
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1997
Gen EPA ID:	CAD981379787

Shipment Date:	19970811
Creation Date:	12/11/1997 0:00:00
Receipt Date:	19970811
Manifest ID:	96867784
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported

CINTAS CORP #54 (Continued) **S113004178**

TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	1.122
Waste Quantity:	330
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970811
Creation Date:	12/11/1997 0:00:00
Receipt Date:	19970811
Manifest ID:	96867784
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	1.496
Waste Quantity:	440
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970811
Creation Date:	12/11/1997 0:00:00
Receipt Date:	19970811
Manifest ID:	96867784
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D007
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported

CINTAS CORP #54 (Continued) **S113004178**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970710
Creation Date:	12/4/1997 0:00:00
Receipt Date:	19970711
Manifest ID:	96834186
Trans EPA ID:	CAD982513632
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	611 - Contaminated soil from site clean-ups
RCRA Code:	F002
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	15.1704
Waste Quantity:	18
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970709
Creation Date:	12/4/1997 0:00:00
Receipt Date:	19970710
Manifest ID:	96834185
Trans EPA ID:	CAD982513632
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	611 - Contaminated soil from site clean-ups
RCRA Code:	F002
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	15.1704
Waste Quantity:	18
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970704
Creation Date:	12/4/1997 0:00:00
Receipt Date:	Not reported
Manifest ID:	96834186

CINTAS CORP #54 (Continued) **S113004178**

Trans EPA ID:	CAD982513632
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	611 - Contaminated soil from site clean-ups
RCRA Code:	F002
Meth Code:	- Not reported
Quantity Tons:	15.1704
Waste Quantity:	18
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19970206
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19970206
Manifest ID:	96569679
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D007
Meth Code:	H01 - Transfer Station
Quantity Tons:	1
Waste Quantity:	2000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19970206
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19970206
Manifest ID:	96569679
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture

CINTAS CORP #54 (Continued) **S113004178**

RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.561
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970113
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19970113
Manifest ID:	96569606
Trans EPA ID:	UTD980635890
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	1.8348
Waste Quantity:	440
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAD981379787
Shipment Date:	20130515
Creation Date:	7/6/2013 22:15:13
Receipt Date:	20130516
Manifest ID:	010832294JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL, INC.
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.938
Waste Quantity:	510

CINTAS CORP #54 (Continued) **S113004178**

Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2008
Gen EPA ID:	CAD981379787
Shipment Date:	20081011
Creation Date:	11/18/2008 18:30:24
Receipt Date:	20081011
Manifest ID:	004474496JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	5.3793
Waste Quantity:	1290
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080614
Creation Date:	8/8/2008 18:30:29
Receipt Date:	20080614
Manifest ID:	003779475JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Quantity Tons:	4.9206
Waste Quantity:	1180
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported

CINTAS CORP #54 (Continued) **S113004178**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1996
Gen EPA ID:	CAD981379787
Shipment Date:	19960624
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19960624
Manifest ID:	96033131
Trans EPA ID:	TXD988052494
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	2.2935
Waste Quantity:	550
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960102
Creation Date:	9/18/1996 0:00:00
Receipt Date:	19960102
Manifest ID:	95383572
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	1.8348
Waste Quantity:	440
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CINTAS CORP #54 (Continued) **S113004178**

Additional Info:

Year:	2001
Gen EPA ID:	CAD981379787
Shipment Date:	20011110
Creation Date:	2/13/2002 0:00:00
Receipt Date:	20011113
Manifest ID:	21020397
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	6.8805
Waste Quantity:	1650
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010825
Creation Date:	10/3/2001 0:00:00
Receipt Date:	Not reported
Manifest ID:	21000662
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	6.672
Waste Quantity:	1600
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010525
Creation Date:	8/14/2001 0:00:00
Receipt Date:	20010607
Manifest ID:	20680675
Trans EPA ID:	SCR000075150

CINTAS CORP #54 (Continued) **S113004178**

Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	19.89
Waste Quantity:	5850
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010428
Creation Date:	7/10/2001 0:00:00
Receipt Date:	20010428
Manifest ID:	20949443
Trans EPA ID:	SCR000074591
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	D007
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	6.7746
Waste Quantity:	1613
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010106
Creation Date:	3/22/2001 0:00:00
Receipt Date:	20010108
Manifest ID:	20415192
Trans EPA ID:	SCR000074591
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	D007

CINTAS CORP #54 (Continued) **S113004178**

Meth Code:	T01 - Treatment, Tank
Quantity Tons:	9.45
Waste Quantity:	2250
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1995
Gen EPA ID:	CAD981379787
Shipment Date:	19950710
Creation Date:	4/2/1996 0:00:00
Receipt Date:	19950710
Manifest ID:	95432233
Trans EPA ID:	TXD988052494
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	3.1275
Waste Quantity:	750
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2011
Gen EPA ID:	CAD981379787
Shipment Date:	20111208
Creation Date:	2/15/2012 20:30:28
Receipt Date:	20111212
Manifest ID:	009444510JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported

CINTAS CORP #54 (Continued) **S113004178**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110510
Creation Date:	6/27/2011 18:30:25
Receipt Date:	20110511
Manifest ID:	004877236JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.418
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110510
Creation Date:	6/27/2011 18:30:25
Receipt Date:	20110511
Manifest ID:	004877236JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.057
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported

CINTAS CORP #54 (Continued) **S113004178**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20110314
Creation Date:	4/27/2011 18:30:07
Receipt Date:	20110315
Manifest ID:	006392865JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.418
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2007
Gen EPA ID:	CAD981379787
Shipment Date:	20070908
Creation Date:	12/28/2007 18:31:00
Receipt Date:	20070912
Manifest ID:	003174869JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	4.17
Waste Quantity:	1000
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CINTAS CORP #54 (Continued) **S113004178**

Shipment Date:	20070716
Creation Date:	11/3/2007 18:30:29
Receipt Date:	20070625
Manifest ID:	002545386JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	6.255
Waste Quantity:	1500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAD981379787

Shipment Date:	20150909
Creation Date:	11/17/2015 22:15:24
Receipt Date:	20150914
Manifest ID:	014380352JJK
Trans EPA ID:	CAR000030114
Trans Name:	NRC ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAR000165274
Trans 2 Name:	INTRINSIC TRANSPORTATION
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.33
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2012

CINTAS CORP #54 (Continued) **S113004178**

Gen EPA ID:	CAD981379787
Shipment Date:	20121101
Creation Date:	2/21/2013 8:40:46
Receipt Date:	20121102
Manifest ID:	010745790JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03
Waste Quantity:	60
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121025
Creation Date:	12/24/2012 22:15:13
Receipt Date:	20121026
Manifest ID:	010745721JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120501
Creation Date:	6/1/2012 20:30:08
Receipt Date:	20120502
Manifest ID:	010027653JJK
Trans EPA ID:	CAD982413262

CINTAS CORP #54 (Continued) **S113004178**

Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.251
Waste Quantity:	300
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAD981379787
Shipment Date:	20050604
Creation Date:	8/16/2005 18:32:05
Receipt Date:	Not reported
Manifest ID:	24357227
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	NONE
Meth Code:	- Not reported
Quantity Tons:	4.94
Waste Quantity:	1300
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050212
Creation Date:	4/29/2005 8:38:49
Receipt Date:	20050214
Manifest ID:	24256215
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418

CINTAS CORP #54 (Continued) **S113004178**

Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	5.3998
Waste Quantity:	1421
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1998
Gen EPA ID:	CAD981379787
Shipment Date:	19980629
Creation Date:	9/15/1998 0:00:00
Receipt Date:	19980630
Manifest ID:	98064544
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	3.4402
Waste Quantity:	825
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980629
Creation Date:	9/15/1998 0:00:00
Receipt Date:	19980630
Manifest ID:	98064545
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported

CINTAS CORP #54 (Continued) **S113004178**

Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980629
Creation Date:	9/15/1998 0:00:00
Receipt Date:	19980630
Manifest ID:	98064545
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	2.244
Waste Quantity:	660
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2010
Gen EPA ID:	CAD981379787
Shipment Date:	20101115
Creation Date:	1/12/2011 18:30:09
Receipt Date:	20101116
Manifest ID:	005764805JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G

CINTAS CORP #54 (Continued) **S113004178**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20101027
Creation Date:	1/3/2011 18:31:02
Receipt Date:	20101028
Manifest ID:	005764772JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.418
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100208
Creation Date:	4/12/2010 18:30:47
Receipt Date:	20100210
Manifest ID:	003341974JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D018
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0417
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100208

CINTAS CORP #54 (Continued) **S113004178**

Creation Date:	4/12/2010 18:30:47
Receipt Date:	20100210
Manifest ID:	003341974JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1999
Gen EPA ID:	CAD981379787
Shipment Date:	19991117
Creation Date:	2/1/2000 0:00:00
Receipt Date:	19991201
Manifest ID:	99053230
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	1.603
Waste Quantity:	3206
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991026
Creation Date:	1/11/2000 0:00:00
Receipt Date:	19991102
Manifest ID:	99199894
Trans EPA ID:	ILD984908202

CINTAS CORP #54 (Continued) **S113004178**

Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.916
Waste Quantity:	1832
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19990616
Creation Date:	8/19/1999 0:00:00
Receipt Date:	19990624
Manifest ID:	98683647
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	2.29
Waste Quantity:	4580
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19990616
Creation Date:	8/19/1999 0:00:00
Receipt Date:	19990624
Manifest ID:	98683646
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported

CINTAS CORP #54 (Continued) **S113004178**

Meth Code:	H01 - Transfer Station
Quantity Tons:	2.748
Waste Quantity:	5496
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990616
Creation Date:	8/19/1999 0:00:00
Receipt Date:	19990624
Manifest ID:	98683647
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	D99 - Disposal, Other
Quantity Tons:	3.435
Waste Quantity:	6870
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2014
Gen EPA ID:	CAD981379787
Shipment Date:	20141203
Creation Date:	3/6/2015 22:15:05
Receipt Date:	20141212
Manifest ID:	012319028JJK
Trans EPA ID:	CAR000030114
Trans Name:	NRC ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAR000165274
Trans 2 Name:	INTRINSIC TRANS INC
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.834
Waste Quantity:	200
Quantity Unit:	G

CINTAS CORP #54 (Continued) **S113004178**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140115
Creation Date:	3/6/2014 22:15:20
Receipt Date:	20140117
Manifest ID:	010957633JJK
Trans EPA ID:	CAR000030114
Trans Name:	NRC ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	CAR000165274
Trans 2 Name:	INTRINSIC TRANS INC
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	1.0425
Waste Quantity:	250
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2002
Gen EPA ID:	CAD981379787
Shipment Date:	20021214
Creation Date:	5/18/2003 14:32:26
Receipt Date:	20021216
Manifest ID:	22284638
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD059494310
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	5.421
Waste Quantity:	1300
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

CINTAS CORP #54 (Continued) **S113004178**

Additional Code 5:	Not reported
Shipment Date:	20020914
Creation Date:	2/25/2003 18:31:38
Receipt Date:	20020917
Manifest ID:	21967008
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	7.0473
Waste Quantity:	1690
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020427
Creation Date:	7/29/2002 18:39:34
Receipt Date:	20020429
Manifest ID:	21551296
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	5.421
Waste Quantity:	1300
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020202
Creation Date:	6/7/2002 18:30:54
Receipt Date:	20020204
Manifest ID:	21460327
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported

CINTAS CORP #54 (Continued) **S113004178**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD059494310
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	6.0465
Waste Quantity:	1450
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2004
Gen EPA ID:	CAD981379787
Shipment Date:	20041113
Creation Date:	2/17/2005 18:31:05
Receipt Date:	20041115
Manifest ID:	23745374
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	4.94
Waste Quantity:	1300
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040814
Creation Date:	1/4/2005 18:33:27
Receipt Date:	20040816
Manifest ID:	23701642
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported

CINTAS CORP #54 (Continued) **S113004178**

Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	4.94
Waste Quantity:	1300
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040501
Creation Date:	10/15/2004 8:41:08
Receipt Date:	20040505
Manifest ID:	23021937
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	5.7
Waste Quantity:	1500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040207
Creation Date:	8/20/2004 9:31:41
Receipt Date:	20040209
Manifest ID:	22962706
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	CAD980887418
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	5.035
Waste Quantity:	1325
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

CINTAS CORP #54 (Continued) **S113004178**

Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 1994
Gen EPA ID: CAD981379787

Shipment Date: 19940625
Creation Date: 3/26/1996 0:00:00
Receipt Date: 19940630
Manifest ID: 92721571
Trans EPA ID: CAD000083121
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD980675276
Trans Name: Not reported
TSDF Alt EPA ID: CAD980675276
TSDF Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: Not reported
Meth Code: T01 - Treatment, Tank
Quantity Tons: 7.089
Waste Quantity: 1700
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2009
Gen EPA ID: CAD981379787

Shipment Date: 20091106
Creation Date: 10/8/2010 18:31:11
Receipt Date: 20091109
Manifest ID: 004858497JJK
Trans EPA ID: CAD982413262
Trans Name: EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD980887418
Trans Name: EVERGREEN OIL INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 122 - Alkaline solution without metals (pH > 12.5
RCRA Code: D002
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 4.587
Waste Quantity: 1100
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported

CINTAS CORP #54 (Continued) **S113004178**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091106
Creation Date:	10/8/2010 18:31:11
Receipt Date:	20091109
Manifest ID:	004858497JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090724
Creation Date:	7/20/2010 9:55:50
Receipt Date:	20090725
Manifest ID:	004002664JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Quantity Tons:	5.32092
Waste Quantity:	1276
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090708
Creation Date:	8/3/2009 18:30:08
Receipt Date:	20090709

CINTAS CORP #54 (Continued) **S113004178**

Manifest ID:	004905933JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.5
Waste Quantity:	1000
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090404
Creation Date:	5/11/2009 18:30:21
Receipt Date:	20090404
Manifest ID:	004004686JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	5.0457
Waste Quantity:	1210
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090225
Creation Date:	4/8/2009 18:31:02
Receipt Date:	20090226
Manifest ID:	004908772JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC

CINTAS CORP #54 (Continued) **S113004178**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090110
Creation Date:	3/9/2009 18:30:30
Receipt Date:	20090110
Manifest ID:	004010304JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	5.0457
Waste Quantity:	1210
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1993
Gen EPA ID:	CAD981379787
Shipment Date:	19930807
Creation Date:	9/12/1995 0:00:00
Receipt Date:	19930809
Manifest ID:	92717626
Trans EPA ID:	CAD000083121
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD980675276
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste

CINTAS CORP #54 (Continued) **S113004178**

RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	4.17
Waste Quantity:	1000
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	CINTAS CORP #54
Address:	777 139TH AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945783218
EPA ID:	CAD981379787
Inactive Date:	06/30/2015
Create Date:	04/10/1987
Last Act Date:	01/27/2016
Mailing Name:	Not reported
Mailing Address:	777 139TH AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN LEANDRO, CA 945733218
Owner Name:	RICHARD T FARMER
Owner Address:	6800 CINTAS BLVD
Owner Address 2:	Not reported
Owner City,State,Zip:	MASON, OH 450409151
Contact Name:	RANJIT SINGH
Contact Address:	777 139TH AVE
Contact Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 94578

NAICS:

EPA ID:	CAD981379787
Create Date:	2011-06-07 09:12:39.560
NAICS Code:	99999
NAICS Description:	Not Otherwise Specified
Issued EPA ID Date:	1987-04-10 00:00:00
Inactive Date:	2015-06-30 00:00:00
Facility Name:	CINTAS CORP #54
Facility Address:	777 139TH AVE
Facility Address 2:	Not reported
Facility City:	SAN LEANDRO
Facility County:	Not reported
Facility State:	CA
Facility Zip:	945783218

I81 **CONTAS CORP** **HIST UST** **U001598505**
North **777 139TH AVE** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578**
0.140 mi.
741 ft. **Site 7 of 11 in cluster I**

Relative:
Higher

Actual:
44 ft.

HIST UST:

Name:	CONTAS CORP
Address:	777 139TH AVE
City,State,Zip:	SAN LEANDRO, CA 94578
File Number:	00035E5D
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00035E5D.pdf
Region:	STATE
Facility ID:	00000065257
Facility Type:	Other
Other Type:	IND. UNIFORM SUPPLY
Contact Name:	Not reported
Telephone:	4153526330
Owner Name:	CINTAS CORP.
Owner Address:	777 139TH AVE
Owner City,St,Zip:	SAN LEANDRO, CA 94578
Total Tanks:	0003
Tank Num:	001
Container Num:	1
Year Installed:	1972
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	2
Year Installed:	1972
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	003
Container Num:	3
Year Installed:	1972
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	3/16"
Leak Detection:	None

Click here for Geo Tracker PDF:

I82 **CINTAS CORPORATION** **RESPONSE** **S101624159**
North **777 139TH AVE** **ENVIROSTOR** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578** **LUST**
0.140 mi. **SWEEPS UST**
741 ft. **Site 8 of 11 in cluster I** **CA FID UST**
DEED
Relative: **Cortese**
Higher **HIST CORTESE**
CERS
Actual:
44 ft.

RESPONSE:

Name:	CINTAS/DEDOMENICO SITE
Address:	777 139TH AVENUE
City,State,Zip:	SAN LEANDRO, CA 94578
Facility ID:	01890017
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	1.5
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Nathan Unangst
Supervisor:	Kimberly Walsh
Division Branch:	Cleanup Berkeley
Site Code:	200642
Site Mgmt. Req.:	REM, LUC, MON, GW, OIL, NOWN, NDAM
Assembly:	18
Senate:	09
Special Program Status:	Not reported
Status:	Certified / Operation & Maintenance
Status Date:	10/02/2006
Restricted Use:	YES
Funding:	Responsible Party
Latitude:	37.70990
Longitude:	-122.1448
APN:	077D142400508
Past Use:	DRY CLEANING
Potential COC :	Tetrachloroethylene (PCE TPH-diesel TPH-gas 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE 1,2-Dichloroethylene (cis 1,2-Dichloroethylene (trans
Confirmed COC:	Tetrachloroethylene (PCE TPH-diesel TPH-gas 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE 1,2-Dichloroethylene (cis 1,2-Dichloroethylene (trans
Potential Description:	OTH, SOIL, SV
Alias Name:	CINTAS CORPORATION
Alias Type:	Alternate Name
Alias Name:	077D142400508
Alias Type:	APN
Alias Name:	110001150101
Alias Type:	EPA (FRS #)
Alias Name:	T0600101726
Alias Type:	GeoTracker Global ID
Alias Name:	200642
Alias Type:	Project Code (Site Code)
Alias Name:	01890017
Alias Type:	Envirostor ID Number
Alias Name:	01990002
Alias Type:	Envirostor ID Number

CINTAS CORPORATION (Continued) **S101624159**

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	08/04/2004
Comments:	Approved RAW for the underlying groundwater contamination. Data indicates that contamination is breaking down. Therefore, final remedy will include institutional controls and groundwater monitoring. Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation / Feasibility Study
Completed Date:	04/28/2003
Comments:	Approved RI/FS for groundwater. Data indicates that contamination is breaking down.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	06/29/1998
Comments:	Completed RA. Soil Vapor Extraction System working well. 21 cubic yards of excavated soil containing tetrachloroethylene were disposed offsite. Soil vapor extraction system operating at 140 standard cubic feet per minute.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	06/26/1997
Comments:	The recommended removal action was a combination excavation and Offsite disposal for the areas outside of the building and soil vapor extraction using horizontal wells for areas inside the building.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Participation Plan / Community Relations Plan
Completed Date:	02/28/1995
Comments:	Public Participation Plan for San Leandro approved.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Plan
Completed Date:	04/12/2005
Comments:	Groundwater will be monitored semi annually at 7 monitoring wells according to approved Groundwater Monitoring Plan.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Design
Completed Date:	04/08/2005
Comments:	Workplan for installation of downgradient monitoring well approved.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	10/24/2005

CINTAS CORPORATION (Continued) **S101624159**

Comments:	Approved the installation of one new downgradient well and the first semi-annual report.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	03/17/2000
Comments:	Approved closure of the SVE system. The confirmation soil sampling results indicated that operation of the SVE system reduced VOC concentrations in soil below the site cleanup level in all tested locations. Estimated 187 pounds of VOCs were removed during the 19 months period of operation.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	09/25/2006
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation & Maintenance Order/Agreement
Completed Date:	05/19/2006
Comments:	DTSC fully executed the O & M agreement with Cintas Corporation for the operation and maintenance of the monitoring wells at the Site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	10/02/2006
Comments:	Site Certified with ongoing operation and maintenance. Monitoring wells will continue to be monitored to confirm natural attenuation of contaminants.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption
Completed Date:	08/04/2004
Comments:	Notice of Exemption for groundwater RAW
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Initial Study/ Neg. Declaration
Completed Date:	06/26/1997
Comments:	Approved RAW which requires installation of two horizontal soil vapor extraction wells under the building and excavation of contaminated soil near sewer line outside of the building. A negative declaration was prepared for this project.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	12/22/1992
Comments:	Issued I&SE Order to the 139th Avenue Sites to Cintas Corporation and property owners.
Completed Area Name:	PROJECT WIDE

CINTAS CORPORATION (Continued) **S101624159**

Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 03/30/1985
Comments: Site Discovered.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 10/19/2007
Comments: There was no evidence of any activities prohibited by the deed restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 10/19/2010
Comments: Based on a walkthrough of the Site, there was no evidence of any activities prohibited by the Deed Restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 10/30/2009
Comments: Based on a walkthrough of the Site, there was no evidence of any activities prohibited by the Deed Restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/31/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 09/24/2008
Comments: There was no evidence of any activities prohibited by the deed restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 01/21/2011
Comments: Letter #1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/16/2011
Comments: This letter explains the property owners obligations for this property
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/10/2011
Comments: Not reported

CINTAS CORPORATION (Continued) **S101624159**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/30/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/28/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/23/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 01/10/1997
Comments: Additional investigation was conducted to better define the lateral and vertical extent of VOCs and petroleum hydrocarbons in the two areas of highest concentration identified earlier.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/18/1996
Comments: Additional investigation was conducted to better define the lateral and vertical extent of VOCs and petroleum hydrocarbons in the two areas of highest concentration identified during the previous investigation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 03/06/1996
Comments: VOCs and Petroleum hydrocarbons were detected in soils.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/11/2006
Comments: Semi-annual report approved. Groundwater concentrations are consistent with historical results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/29/2006
Comments: Semi-annual report approved. Groundwater concentrations are consistent with historical results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

CINTAS CORPORATION (Continued) **S101624159**

Completed Document Type: Fact Sheets
Completed Date: 06/26/1997
Comments: Fact sheet for Draft Removal Action Workplan for soil cleanup.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/18/2007
Comments: Semi-annual report approved. Groundwater concentrations are consistent with historical results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/26/2007
Comments: Semi-annual report approved. Groundwater concentrations are consistent with historical results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/02/2008
Comments: Groundwater concentrations are consistent with historical results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/27/2008
Comments: Groundwater concentrations are consistent with historical results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/06/2009
Comments: Groundwater concentrations are consistent with historical results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/09/2009
Comments: Groundwater concentrations have decreased during this monitoring period.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/08/2010
Comments: Groundwater concentrations are consistent with historical results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/28/2011
Comments: Groundwater concentrations are consistent with historical results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

CINTAS CORPORATION (Continued) **S101624159**

Completed Document Type: Public Notice
Completed Date: 03/02/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 02/01/2011
Comments: The current remedy is protective of human health and the environment based on DTSC s review of data collected to date, the review of site reports documenting the investigations, remedy selection, cleanup and technical assessment completed as part of this five-year review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/06/2012
Comments: Groundwater concentrations are consistent with historical results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/17/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/19/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/27/2015
Comments: Groundwater results are similar to historic results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 04/14/2021
Comments: DTSC approval with two review comments deferred to 3rd Five-Year Review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 03/21/2014
Comments: Cintas provided financial assurance documentation that was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 03/02/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE

CINTAS CORPORATION (Continued) **S101624159**

Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 01/11/2016
Comments: DTSC approval letter for further subsurface vapor characterization.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 06/24/2015
Comments: A total of 23 soil vapor samples were collected and analyzed for this investigation. Three compounds (primarily PCE) exceeded Tier 1 ESLs in 16 of the samples across the Site (Figure 4). At three of the 23 sample locations, PCE also exceeded Commercial ESLs; the highest concentration (28,000 8g/m3) was found outside of the building in the rear parking area, possibly indicative of a localized spill area that could be readily addressed. The other two detections were within one order of magnitude of the Commercial ESL. The widespread presence of PCE in soil vapor across the Site is likely related to known soil and groundwater contamination underlying the majority of the Site. These findings suggest soil vapor impacts are not severe. Such impacts could potentially pose a risk to indoor air quality that may require management over the long term with an appropriately-designed vapor mitigation system. DTSC agrees with these recommendtions

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/21/2015
Comments: Completed GW monitoring event.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/12/2016
Comments: Report meeting the requirements for annual groundwater sampling as part of the site Operations and Maintenance Agreement. The current monitoring network consists of three onsite and three offsite wells. Wells were analyzed for total petroleum hydrocarbons and volatile organic compounds. Concentrations of contaminants of concern were consistent with historic data trends. Report was approved by DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/03/2016
Comments: Work being undertaken in accordance with Workplan for Evaluation of Vapor Intrusion Pathway approved by DTSC January 11, 2016. Trenching was done to investigate a magnetic anomaly. Soil gas sampling will occur 2-3 weeks after trenching to allow subsurface conditions to stabilize.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/19/2016
Comments: Consultant completed soil gas sampling work.

CINTAS CORPORATION (Continued) **S101624159**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/18/2019
Comments: Annual groundwater monitoring report to monitor COC concentrations in groundwater.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/19/2019
Comments: Annual groundwater monitoring report to monitor COC concentrations in groundwater.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/28/2021
Comments: Report to present results of the annual 2018 groundwater sampling event.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 11/12/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/01/2021
Comments: Conditions required in the conditional approval letter dated January 29, 2021 were addressed by the revised report, dated March 1, 2021.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 04/27/2015
Comments: Notification of change in DTSC Project Manager.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/16/2015
Comments: Annual Estimate of DTSC oversight.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/13/2015
Comments: Letter notifying respondents that a new DTSC project manager has been assigned.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/26/2016

CINTAS CORPORATION (Continued) **S101624159**

Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	01/20/2017
Comments:	Letter notifying respondents that a new DTSC project manager has been assigned.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	10/10/2017
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	01/09/2020
Comments:	Annual cost estimate letter projecting costs for DTSC oversight during fiscal year 2019-2020.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/30/2020
Comments:	Annual cost estimate letter projecting costs for DTSC oversight during fiscal year 2020-2021.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	07/16/2019
Comments:	Letter providing notification of change of DTSC project manager overseeing site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	02/02/2021
Comments:	DTSC provided the responsible party with notification of a change in DTSC project manager.
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	5 Year Review Reports
Future Due Date:	2021
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Site Characterization Report
Future Due Date:	2022
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

CINTAS CORPORATION (Continued) **S101624159**

ENVIROSTOR:

Name:	CINTAS/DEDOMENICO SITE
Address:	777 139TH AVENUE
City,State,Zip:	SAN LEANDRO, CA 94578
Facility ID:	01890017
Status:	Certified / Operation & Maintenance
Status Date:	10/02/2006
Site Code:	200642
Site Type:	State Response
Site Type Detailed:	State Response or NPL
Acres:	1.5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Nathan Unangst
Supervisor:	Kimberly Walsh
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Not reported
Restricted Use:	YES
Site Mgmt Req:	REM, LUC, MON, GW, OIL, NOWN, NDAM
Funding:	Responsible Party
Latitude:	37.70990
Longitude:	-122.1448
APN:	077D142400508
Past Use:	DRY CLEANING
Potential COC:	Tetrachloroethylene (PCE TPH-diesel TPH-gas 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE 1,2-Dichloroethylene (cis 1,2-Dichloroethylene (trans
Confirmed COC:	Tetrachloroethylene (PCE TPH-diesel TPH-gas 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE 1,2-Dichloroethylene (cis 1,2-Dichloroethylene (trans
Potential Description:	OTH, SOIL, SV
Alias Name:	CINTAS CORPORATION
Alias Type:	Alternate Name
Alias Name:	077D142400508
Alias Type:	APN
Alias Name:	110001150101
Alias Type:	EPA (FRS #)
Alias Name:	T0600101726
Alias Type:	GeoTracker Global ID
Alias Name:	200642
Alias Type:	Project Code (Site Code)
Alias Name:	01890017
Alias Type:	Envirostor ID Number
Alias Name:	01990002
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	08/04/2004
Comments:	Approved RAW for the underlying groundwater contamination. Data indicates that contamination is breaking down. Therefore, final remedy will include institutional controls and groundwater monitoring.

CINTAS CORPORATION (Continued) **S101624159**

Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 04/28/2003
Comments: Approved RI/FS for groundwater. Data indicates that contamination is breaking down.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/29/1998
Comments: Completed RA. Soil Vapor Extraction System working well. 21 cubic yards of excavated soil containing tetrachloroethylene were disposed offsite. Soil vapor extraction system operating at 140 standard cubic feet per minute.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 06/26/1997
Comments: The recommended removal action was a combination excavation and Offsite disposal for the areas outside of the building and soil vapor extraction using horizontal wells for areas inside the building.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 02/28/1995
Comments: Public Participation Plan for San Leandro approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Plan
Completed Date: 04/12/2005
Comments: Groundwater will be monitored semi annually at 7 monitoring wells according to approved Groundwater Monitoring Plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Design
Completed Date: 04/08/2005
Comments: Workplan for installation of downgradient monitoring well approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 10/24/2005
Comments: Approved the installation of one new downgradient well and the first semi-annual report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 03/17/2000
Comments: Approved closure of the SVE system. The confirmation soil sampling

CINTAS CORPORATION (Continued) **S101624159**

results indicated that operation of the SVE system reduced VOC concentrations in soil below the site cleanup level in all tested locations. Estimated 187 pounds of VOCs were removed during the 19 months period of operation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 09/25/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 05/19/2006
Comments: DTSC fully executed the O & M agreement with Cintas Corporation for the operation and maintenance of the monitoring wells at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 10/02/2006
Comments: Site Certified with ongoing operation and maintenance. Monitoring wells will continue to be monitored to confirm natural attenuation of contaminants.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 08/04/2004
Comments: Notice of Exemption for groundwater RAW

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 06/26/1997
Comments: Approved RAW which requires installation of two horizontal soil vapor extraction wells under the building and excavation of contaminated soil near sewer line outside of the building. A negative declaration was prepared for this project.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 12/22/1992
Comments: Issued I&SE Order to the 139th Avenue Sites to Cintas Corporation and property owners.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 03/30/1985
Comments: Site Discovered.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit

CINTAS CORPORATION (Continued) **S101624159**

Completed Date: 10/19/2007
Comments: There was no evidence of any activities prohibited by the deed restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 10/19/2010
Comments: Based on a walkthrough of the Site, there was no evidence of any activities prohibited by the Deed Restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 10/30/2009
Comments: Based on a walkthrough of the Site, there was no evidence of any activities prohibited by the Deed Restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/31/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 09/24/2008
Comments: There was no evidence of any activities prohibited by the deed restriction.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 01/21/2011
Comments: Letter #1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/16/2011
Comments: This letter explains the property owners obligations for this property
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/10/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/30/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE

CINTAS CORPORATION (Continued) **S101624159**

Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/28/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/23/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 01/10/1997
Comments: Additional investigation was conducted to better define the lateral and vertical extent of VOCs and petroleum hydrocarbons in the two areas of highest concentration identified earlier.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/18/1996
Comments: Additional investigation was conducted to better define the lateral and vertical extent of VOCs and petroleum hydrocarbons in the two areas of highest concentration identified during the previous investigation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 03/06/1996
Comments: VOCs and Petroleum hydrocarbons were detected in soils.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/11/2006
Comments: Semi-annual report approved. Groundwater concentrations are consistent with historical results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/29/2006
Comments: Semi-annual report approved. Groundwater concentrations are consistent with historical results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 06/26/1997
Comments: Fact sheet for Draft Removal Action Workplan for soil cleanup.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report

CINTAS CORPORATION (Continued) **S101624159**

Completed Date: 04/18/2007
Comments: Semi-annual report approved. Groundwater concentrations are consistent with historical results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/26/2007
Comments: Semi-annual report approved. Groundwater concentrations are consistent with historical results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/02/2008
Comments: Groundwater concentrations are consistent with historical results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/27/2008
Comments: Groundwater concentrations are consistent with historical results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/06/2009
Comments: Groundwater concentrations are consistent with historical results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/09/2009
Comments: Groundwater concentrations have decreased during this monitoring period.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/08/2010
Comments: Groundwater concentrations are consistent with historical results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/28/2011
Comments: Groundwater concentrations are consistent with historical results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 03/02/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports

CINTAS CORPORATION (Continued) **S101624159**

Completed Date: 02/01/2011
Comments: The current remedy is protective of human health and the environment based on DTSC s review of data collected to date, the review of site reports documenting the investigations, remedy selection, cleanup and technical assessment completed as part of this five-year review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/06/2012
Comments: Groundwater concentrations are consistent with historical results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/17/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/19/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/27/2015
Comments: Groundwater results are similar to historic results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 04/14/2021
Comments: DTSC approval with two review comments deferred to 3rd Five-Year Review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 03/21/2014
Comments: Cintas provided financial assurance documentation that was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 03/02/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 01/11/2016
Comments: DTSC approval letter for further subsurface vapor characterization.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

CINTAS CORPORATION (Continued) **S101624159**

Completed Document Type:	Site Characterization Report
Completed Date:	06/24/2015
Comments:	A total of 23 soil vapor samples were collected and analyzed for this investigation. Three compounds (primarily PCE) exceeded Tier 1 ESLs in 16 of the samples across the Site (Figure 4). At three of the 23 sample locations, PCE also exceeded Commercial ESLs; the highest concentration (28,000 8g/m3) was found outside of the building in the rear parking area, possibly indicative of a localized spill area that could be readily addressed. The other two detections were within one order of magnitude of the Commercial ESL. The widespread presence of PCE in soil vapor across the Site is likely related to known soil and groundwater contamination underlying the majority of the Site. These findings suggest soil vapor impacts are not severe. Such impacts could potentially pose a risk to indoor air quality that may require management over the long term with an appropriately-designed vapor mitigation system. DTSC agrees with these recommendtions
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	10/21/2015
Comments:	Completed GW monitoring event.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	05/12/2016
Comments:	Report meeting the requirements for annual groundwater sampling as part of the site Operations and Maintenance Agreement. The current monitoring network consists of three onsite and three offsite wells. Wells were analyzed for total petroleum hydrocarbons and volatile organic compounds. Concentrations of contaminants of concern were consistent with historic data trends. Report was approved by DTSC.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	04/03/2016
Comments:	Work being undertaken in accordance with Workplan for Evaluation of Vapor Intrusion Pathway approved by DTSC January 11, 2016. Trenching was done to investigate a magnetic anomaly. Soil gas sampling will occur 2-3 weeks after trenching to allow subsurface conditions to stabilize.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	05/19/2016
Comments:	Consultant completed soil gas sampling work.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	07/18/2019
Comments:	Annual groundwater monitoring report to monitor COC concentrations in groundwater.

CINTAS CORPORATION (Continued) **S101624159**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/19/2019
Comments: Annual groundwater monitoring report to monitor COC concentrations in groundwater.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/28/2021
Comments: Report to present results of the annual 2018 groundwater sampling event.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 11/12/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/01/2021
Comments: Conditions required in the conditional approval letter dated January 29, 2021 were addressed by the revised report, dated March 1, 2021.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 04/27/2015
Comments: Notification of change in DTSC Project Manager.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/16/2015
Comments: Annual Estimate of DTSC oversight.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/13/2015
Comments: Letter notifying respondents that a new DTSC project manager has been assigned.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/26/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/20/2017
Comments: Letter notifying respondents that a new DTSC project manager has been

CINTAS CORPORATION (Continued) **S101624159**

assigned.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/10/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 01/09/2020
Comments: Annual cost estimate letter projecting costs for DTSC oversight during fiscal year 2019-2020.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/30/2020
Comments: Annual cost estimate letter projecting costs for DTSC oversight during fiscal year 2020-2021.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 07/16/2019
Comments: Letter providing notification of change of DTSC project manager overseeing site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/02/2021
Comments: DTSC provided the responsible party with notification of a change in DTSC project manager.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2021
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Site Characterization Report
Future Due Date: 2022
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST:
Name: CINTAS CORPORATION
Address: 777 139TH AVE
City,State,Zip: SAN LEANDRO, CA 94578
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101726

CINTAS CORPORATION (Continued) **S101624159**

Global Id: T0600101726
Latitude: 37.708854
Longitude: -122.143739
Status: Open - Verification Monitoring
Status Date: 11/13/2008
Case Worker: Not reported
RB Case Number: 01-1863
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
File Location: DTSC
Local Case Number: 01890017
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0600101726
Contact Type: Local Agency Caseworker
Contact Name: BARBARA COOK
Organization Name: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Address: 700 HEINZ ST.
City: BERKELEY
Email: Not reported
Phone Number: Not reported

Global Id: T0600101726
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600101726
Action Type: RESPONSE
Date: 04/01/1987
Action: Monitoring Report - Quarterly

Global Id: T0600101726
Action Type: RESPONSE
Date: 01/16/1987
Action: Monitoring Report - Quarterly

Global Id: T0600101726
Action Type: RESPONSE
Date: 06/06/1986
Action: Tank Removal Report / UST Sampling Report

Global Id: T0600101726
Action Type: RESPONSE
Date: 12/07/1988
Action: Monitoring Report - Quarterly

Global Id: T0600101726
Action Type: RESPONSE
Date: 01/14/1988

CINTAS CORPORATION (Continued) **S101624159**

Action: Monitoring Report - Quarterly

Global Id: T0600101726
Action Type: RESPONSE
Date: 08/28/1987
Action: Other Report / Document

Global Id: T0600101726
Action Type: RESPONSE
Date: 05/13/1988
Action: Monitoring Report - Quarterly

Global Id: T0600101726
Action Type: RESPONSE
Date: 12/23/1987
Action: Monitoring Report - Quarterly

Global Id: T0600101726
Action Type: Other
Date: 05/01/1986
Action: Leak Discovery

Global Id: T0600101726
Action Type: Other
Date: 05/01/1986
Action: Leak Stopped

Global Id: T0600101726
Action Type: Other
Date: 05/01/1986
Action: Leak Reported

Global Id: T0600101726
Action Type: RESPONSE
Date: 08/22/1988
Action: Monitoring Report - Quarterly

Global Id: T0600101726
Action Type: RESPONSE
Date: 07/10/1986
Action: Other Report / Document

Global Id: T0600101726
Action Type: REMEDIATION
Date: 05/01/1986
Action: Excavation

Global Id: T0600101726
Action Type: ENFORCEMENT
Date: 09/25/2006
Action: Deed Restriction / Land Use Restriction / Covenant - #2006361530

LUST:
Global Id: T0600101726
Status: Open - Case Begin Date
Status Date: 05/01/1986

CINTAS CORPORATION (Continued) **S101624159**

Global Id: T0600101726
Status: Open - Site Assessment
Status Date: 12/01/1988

Global Id: T0600101726
Status: Open - Site Assessment
Status Date: 02/02/1994

Global Id: T0600101726
Status: Open - Site Assessment
Status Date: 03/01/1994

Global Id: T0600101726
Status: Open - Site Assessment
Status Date: 08/13/2008

Global Id: T0600101726
Status: Open - Verification Monitoring
Status Date: 11/13/2008

LUST REG 2:
Region: 2
Facility Id: 01-1863
Facility Status: Pollution Characterization
Case Number: 01-1863
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 12/1/1988
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 2/2/1994
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: 3/1/1994
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:
Name: CONTAS CORP.
Address: 777 139TH AVE
City: SAN LEANDRO
Status: Not reported
Comp Number: 65257
Number: Not reported
Board Of Equalization: 44-001182
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-007-065257-000001
Tank Status: Not reported
Capacity: 6000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT

CINTAS CORPORATION (Continued) **S101624159**

Content: LEADED
Number Of Tanks: 2

Name: CONTAS CORP.
Address: 777 139TH AVE
City: SAN LEANDRO
Status: Not reported
Comp Number: 65257
Number: Not reported
Board Of Equalization: 44-001182
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-007-065257-000002
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 01000527
Regulated By: UTNKI
Regulated ID: 00065257
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4153526330
Mail To: Not reported
Mailing Address: 777 139TH AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: SAN LEANDRO 94578
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

DEED:
Name: CINTAS CORPORATION
Address: 777 139TH AVE
City,State,Zip: SAN LEANDRO, CA 94578
Envirostor ID: T0600101726
Area: Not reported
Sub Area: Not reported
Site Type: LUFT
Status: OPEN - VERIFICATION MONITORING
Agency: SWRCB
Covenant Uploaded: Y
Deed Date(s): 09/25/2006
File Name: Geotracker Land Use/Deed Restrictions

CINTAS CORPORATION (Continued) **S101624159**

Name: CINTAS/DEDOMENICO SITE
Address: 777 139TH AVENUE
City,State,Zip: SAN LEANDRO, CA 94578
Envirostor ID: 1890017
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: STATE RESPONSE
Status: CERTIFIED / OPERATION & MAINTENANCE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): Not reported
File Name: Envirostor Land Use Restrictions

CORTESE:

Name:	CINTAS CORPORATION
Address:	777 139TH AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0600101726
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	OPEN - VERIFICATION MONITORING
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

Name:	CINTAS/DEDOMENICO SITE
Address:	777 139TH AVENUE
City,State,Zip:	SAN LEANDRO, CA 94578
Region:	CORTESE
Envirostor Id:	1890017
Global ID:	Not reported
Site/Facility Type:	STATE RESPONSE
Cleanup Status:	CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS
Status Date:	10/02/2006
Site Code:	200642
Latitude:	37.709906
Longitude:	-122.14486
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	envirostor
Order No:	Not reported
Waste Discharge System No:	Not reported

CINTAS CORPORATION (Continued) **S101624159**

Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Haz Waste & Substances Sites

HIST CORTESE:
edr_fname: CINTAS CORPORATION
edr_fadd1: 777 139TH
City,State,Zip: SAN LEANDRO, CA
Region: CORTESE
Facility County Code: 1
Reg By: CALSI
Reg Id: 01890017

edr_fname: CINTAS CORPORATION
edr_fadd1: 777 139TH
City,State,Zip: SAN LEANDRO, CA
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1863

CERS:
Name: CINTAS CORPORATION
Address: 777 139TH AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 227237
CERS ID: T0600101726
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: BARBARA COOK - DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Entity Title: Not reported
Affiliation Address: 700 HEINZ ST.
Affiliation City: BERKELEY
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

H83 **PG&E SAN LEANDRO U SUBSTATION** **RCRA NonGen / NLR** **1026052460**
NNW **13939 WASHINGTON ST.** **CAC003059356**
1/8-1/4 **SAN LEANDRO, CA 94577**
0.159 mi.
841 ft. **Site 3 of 6 in cluster H**

Relative: **Higher**
Actual: **44 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2020-03-10 00:00:00.0
Handler Name:	PG&E SAN LEANDRO U SUBSTATION
Handler Address:	13939 WASHINGTON ST.
Handler City,State,Zip:	SAN LEANDRO, CA 94577
EPA ID:	CAC003059356
Contact Name:	DAVID HENDRICKS
Contact Address:	111 ALMADEN BLVD
Contact City,State,Zip:	SAN JOSE, CA 95113-2001
Contact Telephone:	925-765-9116
Contact Fax:	Not reported
Contact Email:	D5HM@PGE.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 7640
Mailing City,State,Zip:	SAN FRANCISCO, CA 94120
Owner Name:	PACIFIC GAS AND ELECRTRIC COMPANY
Owner Type:	Other
Operator Name:	DAVID HENDRICKS
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

PG&E SAN LEANDRO U SUBSTATION (Continued) **1026052460**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-03-13 17:51:42.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DAVID HENDRICKS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	111 ALMADEN BLVD
Owner/Operator City,State,Zip:	SAN JOSE, CA 95113-2001
Owner/Operator Telephone:	925-765-9116
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PACIFIC GAS AND ELECRTRIC COMPANY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 7640
Owner/Operator City,State,Zip:	SAN FRANCISCO, CA 94120
Owner/Operator Telephone:	925-765-9116
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

PG&E SAN LEANDRO U SUBSTATION (Continued) **1026052460**

Historic Generators:
- Receive Date: 2020-03-10 00:00:00.0
- Handler Name: PG&E SAN LEANDRO U SUBSTATION
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 221121
- NAICS Description: ELECTRIC BULK POWER TRANSMISSION AND CONTROL

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

H84 **PG&E** **RCRA NonGen / NLR** **1026716199**
NNW **13939 WASHINGTON STREET** **CAC003104665**
1/8-1/4 **SAN LEANDRO, CA 94577**
0.159 mi.
841 ft. **Site 4 of 6 in cluster H**

Relative: **Higher**
Actual: **44 ft.**

RCRA NonGen / NLR:
- Date Form Received by Agency: 2021-02-09 00:00:00.0
- Handler Name: PG&E
- Handler Address: 13939 WASHINGTON STREET
- Handler City,State,Zip: SAN LEANDRO, CA 94577
- EPA ID: CAC003104665
- Contact Name: RYAN CAWDREY
- Contact Address: 3401 CROW CANYON RD
- Contact City,State,Zip: SAN RAMON, CA 94583
- Contact Telephone: 510-414-0015
- Contact Fax: Not reported
- Contact Email: RYAN.CAWDREY@PGE.COM
- Contact Title: Not reported
- EPA Region: 09
- Land Type: Not reported
- Federal Waste Generator Description: Not a generator, verified
- Non-Notifier: Not reported
- Biennial Report Cycle: Not reported
- Accessibility: Not reported
- Active Site Indicator: Not reported
- State District Owner: Not reported
- State District: Not reported
- Mailing Address: PO BOX 7640
- Mailing City,State,Zip: SAN FRANCISCO, CA 94120
- Owner Name: C/O ENVIRONMENTAL SERVICES

PG&E (Continued) **1026716199**

Owner Type:	Other
Operator Name:	RYAN CAWDREY
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2021-02-26 18:45:31.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

PG&E (Continued) **1026716199**

Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	C/O ENVIRONMENTAL SERVICES
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3401 CROW CANYON RD
Owner/Operator City,State,Zip:	SAN RAMON, CA 94583
Owner/Operator Telephone:	415-973-7000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	RYAN CAWDREY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3401 CROW CANYON RD
Owner/Operator City,State,Zip:	SAN RAMON, CA 94583
Owner/Operator Telephone:	510-414-0015
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2021-02-09 00:00:00.0
Handler Name: PG&E	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	221115
NAICS Description:	WIND ELECTRIC POWER GENERATION

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

H85 **PG&E - U SUBSTATION** **AST** **A100324661**
NNW **13939 WASHINGTON AV** **N/A**
1/8-1/4 **SAN LEANDRO, CA**
0.159 mi.
841 ft. **Site 5 of 6 in cluster H**

Relative: **Higher**
Actual: **44 ft.**

AST:

Name:	PG&E - U SUBSTATION
Address:	13939 WASHINGTON AV
City/Zip:	SAN LEANDRO,
Certified Unified Program Agencies:	San Leandro
Owner:	PACIFIC GAS & ELECTRIC CORP
Total Gallons:	78,974
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

H86 **PACIFIC GAS AND ELECTRIC COMPANY SAN LEANDRO U SUB** **RCRA NonGen / NLR** **1024774119**
NNW **13939 WASHINGTON** **CAC002994040**
1/8-1/4 **NEWARK, CA 94578**
0.159 mi.
841 ft. **Site 6 of 6 in cluster H**

Relative: **Higher**
Actual: **44 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2018-12-21 00:00:00.0
Handler Name:	PACIFIC GAS AND ELECTRIC COMPANY SAN LEANDRO U SUBSTATION
Handler Address:	13939 WASHINGTON
Handler City,State,Zip:	NEWARK, CA 94578
EPA ID:	CAC002994040
Contact Name:	DAVID HENDRICKS
Contact Address:	111 ALAMDEN BLVD.
Contact City,State,Zip:	SAN JOSE, CA 95113
Contact Telephone:	925-765-9116
Contact Fax:	Not reported
Contact Email:	D5HM@PGE.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified

PACIFIC GAS AND ELECTRIC COMPANY SAN LEANDRO U SUBSTATION (Continued) **1024774119**

Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 7640
Mailing City,State,Zip:	SAN FRANCISCO, CA 94120
Owner Name:	PACIFIC GAS AND ELECTRIC COMPANY
Owner Type:	Other
Operator Name:	DAVID HENDRICKS
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No

PACIFIC GAS AND ELECTRIC COMPANY SAN LEANDRO U SUBSTATION (Continued) **1024774119**

Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-02-22 19:39:08.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DAVID HENDRICKS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	111 ALAMDEN BLVD.
Owner/Operator City,State,Zip:	SAN JOSE, CA 95113
Owner/Operator Telephone:	925-765-9116
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PACIFIC GAS AND ELECTRIC COMPANY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 7640
Owner/Operator City,State,Zip:	SAN FRANCISCO, CA 94120
Owner/Operator Telephone:	925-765-9116
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2018-12-21 00:00:00.0
Handler Name:	PACIFIC GAS AND ELECTRIC COMPANY SAN LEANDRO U SUBSTATION
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	221121
NAICS Description:	ELECTRIC BULK POWER TRANSMISSION AND CONTROL

PACIFIC GAS AND ELECTRIC COMPANY SAN LEANDRO U SUBSTATION (Continued) **1024774119**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

I87 **SPECTRUM BODY AND PAINT** **RCRA NonGen / NLR** **1024793432**
NNE **760 139TH AVE** **CAL000138448**
1/8-1/4 **SAN LEANDRO, CA 94578**
0.169 mi.
891 ft. **Site 9 of 11 in cluster I**

Relative: **Higher**
Actual: **45 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	1995-08-04 00:00:00.0
Handler Name:	SPECTRUM BODY AND PAINT
Handler Address:	760 139TH AVE
Handler City,State,Zip:	SAN LEANDRO, CA 94578-0000
EPA ID:	CAL000138448
Contact Name:	GLEN STUHLMACHER-PARTNER
Contact Address:	760 139TH AVE
Contact City,State,Zip:	SAN LEANDRO, CA 94578
Contact Telephone:	510-357-3883
Contact Fax:	510-357-7313
Contact Email:	SERVICE@SPECTRUMBODY.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	760 139TH AVE
Mailing City,State,Zip:	SAN LEANDRO, CA 94578-0000
Owner Name:	GLEN AND RANDY STUHLMACHER
Owner Type:	Other
Operator Name:	GLEN STUHLMACHER-PARTNER
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported

SPECTRUM BODY AND PAINT (Continued) **1024793432**

Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 15:43:04.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GLEN STUHLMACHER-PARTNER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	760 139TH AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578
Owner/Operator Telephone:	510-357-3883
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	GLEN AND RANDY STUHLMACHER
Legal Status:	Other

SPECTRUM BODY AND PAINT (Continued) **1024793432**

Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	760 139TH AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578-0000
Owner/Operator Telephone:	510-357-3883
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1995-08-04 00:00:00.0
Handler Name:	SPECTRUM BODY AND PAINT
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	811121
NAICS Description:	AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

I88 **CALIBER COLLISION CENTERS** **RCRA NonGen / NLR** **1024872619**
NNE **760 139TH AVE** **CAL000441267**
1/8-1/4 **SAN LEANDRO, CA 94578**
0.169 mi.
891 ft. **Site 10 of 11 in cluster I**

Relative:
Higher

Actual:
45 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2018-11-28 00:00:00.0
Handler Name:	CALIBER COLLISION CENTERS
Handler Address:	760 139TH AVE
Handler City,State,Zip:	SAN LEANDRO, CA 94578
EPA ID:	CAL000441267
Contact Name:	SHARON LAWRENCE
Contact Address:	401 E CORPORATE DR STE 150
Contact City,State,Zip:	LEWISVILLE, TX 75057
Contact Telephone:	469-948-9500
Contact Fax:	972-906-7214
Contact Email:	LICENSEANDPERMITS@CALIBERCOLLISION.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified

CALIBER COLLISION CENTERS (Continued) **1024872619**

Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	401 E CORPORATE DR STE 150
Mailing City,State,Zip:	LEWISVILLE, TX 75057
Owner Name:	CALIBER BODYWORKS INC
Owner Type:	Other
Operator Name:	SHARON LAWRENCE
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No

CALIBER COLLISION CENTERS (Continued) **1024872619**

Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-12-20 13:53:06.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CALIBER BODYWORKS INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	401 E CORPORATE DR STE 150
Owner/Operator City,State,Zip:	LEWISVILLE, TX 75057
Owner/Operator Telephone:	469-948-9500
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SHARON LAWRENCE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	401 E CORPORATE DR STE 150
Owner/Operator City,State,Zip:	LEWISVILLE, TX 75057
Owner/Operator Telephone:	469-948-9500
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2018-11-28 00:00:00.0
Handler Name:	CALIBER COLLISION CENTERS
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	811121
NAICS Description:	AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE

CALIBER COLLISION CENTERS (Continued) **1024872619**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

I89 **CALIBER COLLISION CENTER - SAN LEANDRO** **CERS HAZ WASTE** **S113075590**
NNE **760 139TH AVE** **HAZNET** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578** **CERS**
0.169 mi. **HWTS**
891 ft. **Site 11 of 11 in cluster I**

Relative:
Higher

Actual:
45 ft.

CERS HAZ WASTE:
Name: CALIBER COLLISION CENTER - SAN LEANDRO
Address: 760 139TH AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 69947
CERS ID: 10448809
CERS Description: Hazardous Waste Generator

HAZNET:
Name: SPECTRUM BODY AND PAINT
Address: 760 139TH AVE
Address 2: Not reported
City,State,Zip: SAN LEANDRO, CA 945780000
Contact: GLEN STUHLMACHER-PARTNER
Telephone: 5103573883
Mailing Name: Not reported
Mailing Address: 760 139TH AVE

Year: 2010
Gepaid: CAL000138448
TSD EPA ID: CAD008252405
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.114

Year: 2007
Gepaid: CAL000138448
TSD EPA ID: CAD009452657
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H020 - Solvents Recovery
Tons: 0.2556

Year: 2006
Gepaid: CAL000138448
TSD EPA ID: CA0000084517
CA Waste Code: -
Disposal Method: H01 - Transfer Station
Tons: Not reported

Year: 2006
Gepaid: CAL000138448
TSD EPA ID: CA0000084517
CA Waste Code: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Disposal Method: H01 - Transfer Station
Tons: 0.0175

Year: 2003
Gepaid: CAL000138448
TSD EPA ID: CA0000084517
CA Waste Code: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: H01 - Transfer Station
Tons: 0.036

Year: 2003
Gepaid: CAL000138448
TSD EPA ID: CA0000084517
CA Waste Code: -
Disposal Method: H01 - Transfer Station
Tons: Not reported

Year: 2002
Gepaid: CAL000138448
TSD EPA ID: CA0000084517
CA Waste Code: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: H01 - Transfer Station
Tons: 0.128

Year: 2001
Gepaid: CAL000138448
TSD EPA ID: CA0000084517
CA Waste Code: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: -
Tons: 0.036

Year: 2001
Gepaid: CAL000138448
TSD EPA ID: CA0000084517
CA Waste Code: -
Disposal Method: H01 - Transfer Station
Tons: 0

Year: 2001
Gepaid: CAL000138448
TSD EPA ID: CA0000084517
CA Waste Code: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: H01 - Transfer Station
Tons: 0.62

Click this hyperlink while viewing on your computer to access
9 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2003
Gen EPA ID: CAL000138448

Shipment Date: 20030716
Creation Date: 7/26/2004 18:31:36
Receipt Date: 20030721
Manifest ID: 22880617

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Trans EPA ID:	TXR000050930
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20030716
Creation Date:	7/26/2004 18:31:36
Receipt Date:	20030721
Manifest ID:	22880617
Trans EPA ID:	TXR000050930
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1996
Gen EPA ID:	CAL000138448

Shipment Date:	19961219
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961227
Manifest ID:	96474241
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19961219
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961227
Manifest ID:	96474241
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.056
Waste Quantity:	112
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19961120
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961126
Manifest ID:	96463692
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961024
Creation Date:	5/21/1997 0:00:00
Receipt Date:	19961106
Manifest ID:	96486752
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19961024
Creation Date:	5/21/1997 0:00:00
Receipt Date:	19961106
Manifest ID:	96486752
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.056
Waste Quantity:	112
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960927
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961007

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Manifest ID:	96476241
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.056
Waste Quantity:	112
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19960927
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961007
Manifest ID:	96476241
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19960823
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19960828
Manifest ID:	96507814
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.112
Waste Quantity:	224
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960823
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19960828
Manifest ID:	96507814
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960802
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19960806
Manifest ID:	96105531
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAO000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2006
Gen EPA ID:	CAL000138448
Shipment Date:	20060425
Creation Date:	2/22/2007 18:30:06
Receipt Date:	20060427
Manifest ID:	25021772
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060425
Creation Date:	2/22/2007 18:30:06
Receipt Date:	20060427
Manifest ID:	25021772
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY KLEEN SYSTEMS INC
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0175
Waste Quantity:	35
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Year:	1999
Gen EPA ID:	CAL000138448
Shipment Date:	19991217
Creation Date:	2/15/2000 0:00:00
Receipt Date:	19991221
Manifest ID:	99532287
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.056
Waste Quantity:	112
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991217
Creation Date:	2/15/2000 0:00:00
Receipt Date:	19991221
Manifest ID:	99532287
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19991119
Creation Date:	1/19/2000 0:00:00
Receipt Date:	19991129
Manifest ID:	99519051
Trans EPA ID:	ILD984908202
Trans Name:	Not reported

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19991027
Creation Date:	1/4/2000 0:00:00
Receipt Date:	19991029
Manifest ID:	99512917
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0205
Waste Quantity:	41
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19990923
Creation Date:	11/18/1999 0:00:00
Receipt Date:	19990927
Manifest ID:	99502914
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990923
Creation Date:	11/18/1999 0:00:00
Receipt Date:	19990927
Manifest ID:	99502914
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.112
Waste Quantity:	224
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19990819
Creation Date:	10/12/1999 0:00:00
Receipt Date:	19990824
Manifest ID:	99038739
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Shipment Date:	19990721
Creation Date:	8/24/1999 0:00:00
Receipt Date:	19990723
Manifest ID:	99270348
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19990622
Creation Date:	8/16/1999 0:00:00
Receipt Date:	19990624
Manifest ID:	99270333
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.116
Waste Quantity:	232
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19990622
Creation Date:	8/16/1999 0:00:00
Receipt Date:	19990624
Manifest ID:	99270333
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2007
Gen EPA ID:	CAL000138448
Shipment Date:	20070725
Creation Date:	11/5/2007 18:30:43
Receipt Date:	20070726
Manifest ID:	001647476JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	ROMIC ENVIRONMENTAL TECH CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F002
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.1476
Waste Quantity:	41
Quantity Unit:	G
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D005
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20070119
Creation Date:	8/8/2007 18:30:15
Receipt Date:	20070124
Manifest ID:	000576050JJK
Trans EPA ID:	CAD008252405
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	ROMIC ENVIRONMENTAL TECH CORP
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	F002

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.108
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	D008
Additional Code 2:	D007
Additional Code 3:	D005
Additional Code 4:	D001
Additional Code 5:	Not reported

Additional Info:

Year:	1998
Gen EPA ID:	CAL000138448
Shipment Date:	19981215
Creation Date:	2/8/1999 0:00:00
Receipt Date:	19981217
Manifest ID:	98450927
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981117
Creation Date:	1/13/1999 0:00:00
Receipt Date:	19981120
Manifest ID:	98445513
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981117
Creation Date:	1/13/1999 0:00:00
Receipt Date:	19981120
Manifest ID:	98445513
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.056
Waste Quantity:	112
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19981021
Creation Date:	12/8/1998 0:00:00
Receipt Date:	19981023
Manifest ID:	98566939
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.018
Waste Quantity:	36
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980923
Creation Date:	11/23/1998 0:00:00
Receipt Date:	19980925
Manifest ID:	98282256

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19980923
Creation Date:	11/23/1998 0:00:00
Receipt Date:	19980925
Manifest ID:	98282256
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	SCD987574647
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.056
Waste Quantity:	112
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19980828
Creation Date:	11/2/1998 0:00:00
Receipt Date:	19980904
Manifest ID:	98275614
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980730
Creation Date:	10/1/1998 0:00:00
Receipt Date:	19980805
Manifest ID:	98171263
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.056
Waste Quantity:	112
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980730
Creation Date:	10/1/1998 0:00:00
Receipt Date:	19980805
Manifest ID:	98171263
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.054
Waste Quantity:	108
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Additional Code 5:	Not reported
Shipment Date:	19980629
Creation Date:	9/3/1998 0:00:00
Receipt Date:	19980707
Manifest ID:	98174626
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2010
Gen EPA ID:	CAL000138448
Shipment Date:	20100604
Creation Date:	1/24/2011 18:30:30
Receipt Date:	20100617
Manifest ID:	006491306JJK
Trans EPA ID:	CAR000194837
Trans Name:	PACIFIC COAST LACQUER
Trans 2 EPA ID:	CAD008252405
Trans 2 Name:	PACIFIC RESOURCE RECOVERY
TSDF EPA ID:	CAD008252405
Trans Name:	PACIFIC RESOURCE RECOVERY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.114
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2000

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Gen EPA ID:	CAL000138448
Shipment Date:	20001215
Creation Date:	3/6/2001 0:00:00
Receipt Date:	20001221
Manifest ID:	20561343
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.056
Waste Quantity:	112
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001211
Creation Date:	2/1/2001 0:00:00
Receipt Date:	20001213
Manifest ID:	20380103
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001116
Creation Date:	1/12/2001 0:00:00
Receipt Date:	20001120
Manifest ID:	20286087
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.001
Waste Quantity:	2
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20001017
Creation Date:	12/13/2000 0:00:00
Receipt Date:	20001019
Manifest ID:	20288821
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20000922
Creation Date:	11/14/2000 0:00:00
Receipt Date:	20000926
Manifest ID:	20034093
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000823
Creation Date:	10/23/2000 0:00:00
Receipt Date:	20000828
Manifest ID:	20020467
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.056
Waste Quantity:	112
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000823
Creation Date:	10/23/2000 0:00:00
Receipt Date:	20000828
Manifest ID:	20020467
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000725

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Creation Date:	9/25/2000 0:00:00
Receipt Date:	20000803
Manifest ID:	20199283
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20000628
Creation Date:	8/14/2000 0:00:00
Receipt Date:	20000705
Manifest ID:	20011547
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.056
Waste Quantity:	112
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20000628
Creation Date:	8/14/2000 0:00:00
Receipt Date:	20000705
Manifest ID:	20011547
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	SCR000074591
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2001
Gen EPA ID:	CAL000138448
Shipment Date:	20011121
Creation Date:	1/16/2002 0:00:00
Receipt Date:	20011128
Manifest ID:	21375563
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20011011
Creation Date:	12/17/2001 0:00:00
Receipt Date:	20011016
Manifest ID:	21393321
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20011011
Creation Date:	12/17/2001 0:00:00
Receipt Date:	20011016
Manifest ID:	21393321
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.056
Waste Quantity:	112
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010911
Creation Date:	11/1/2001 0:00:00
Receipt Date:	20010913
Manifest ID:	21398023
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Shipment Date:	20010815
Creation Date:	10/3/2001 0:00:00
Receipt Date:	20010820
Manifest ID:	21107039
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010716
Creation Date:	10/1/2001 0:00:00
Receipt Date:	20010724
Manifest ID:	21103403
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010618
Creation Date:	8/24/2001 0:00:00
Receipt Date:	20010626
Manifest ID:	20650761
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.056
Waste Quantity:	112
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010618
Creation Date:	8/24/2001 0:00:00
Receipt Date:	20010626
Manifest ID:	20650761
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20010523
Creation Date:	7/30/2001 0:00:00
Receipt Date:	20010529
Manifest ID:	20640863
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0
Waste Quantity:	0
Quantity Unit:	Not reported

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010523
Creation Date:	7/30/2001 0:00:00
Receipt Date:	20010529
Manifest ID:	20640863
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	- Not reported
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1995
Gen EPA ID:	CAL000138448
Shipment Date:	19951214
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951218
Manifest ID:	95822695
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613950
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.018
Waste Quantity:	36
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Shipment Date:	19951214
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951218
Manifest ID:	95822695
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613950
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.056
Waste Quantity:	112
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19951121
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951127
Manifest ID:	95771595
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613950
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.018
Waste Quantity:	36
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19951017
Creation Date:	7/26/1996 0:00:00
Receipt Date:	19951019
Manifest ID:	95487538
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613950

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.018
Waste Quantity:	36
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19950912
Creation Date:	4/1/1996 0:00:00
Receipt Date:	19950914
Manifest ID:	93790551
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613950
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.056
Waste Quantity:	112
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19950912
Creation Date:	4/1/1996 0:00:00
Receipt Date:	19950914
Manifest ID:	93790551
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613950
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1997
Gen EPA ID:	CAL000138448
Shipment Date:	19971216
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971217
Manifest ID:	97342810
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.056
Waste Quantity:	112
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19971216
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971217
Manifest ID:	97342810
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Shipment Date:	19971119
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971125
Manifest ID:	97349976
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.056
Waste Quantity:	112
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19971119
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971125
Manifest ID:	97349976
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19971021
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971027
Manifest ID:	96604006
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19970923
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19970930
Manifest ID:	96843321
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	19970923
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19970930
Manifest ID:	96843321
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.056
Waste Quantity:	112
Quantity Unit:	P

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970827
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19970904
Manifest ID:	96664938
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970722
Creation Date:	12/4/1997 0:00:00
Receipt Date:	19970724
Manifest ID:	96853610
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19970722
Creation Date:	12/4/1997 0:00:00
Receipt Date:	19970724

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Manifest ID:	96853610
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.056
Waste Quantity:	112
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2002
Gen EPA ID:	CAL000138448
Shipment Date:	20020201
Creation Date:	3/7/2002 0:00:00
Receipt Date:	20020205
Manifest ID:	21488270
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.056
Waste Quantity:	112
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020201
Creation Date:	3/7/2002 0:00:00
Receipt Date:	20020205
Manifest ID:	21488270
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20020109
Creation Date:	2/26/2002 0:00:00
Receipt Date:	20020116
Manifest ID:	21482437
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	Not reported
TSDF Alt EPA ID:	CA0000084517
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	F005
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.036
Waste Quantity:	72
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	CALIBER COLLISION CENTER - SAN LEANDRO
Address:	760 139TH AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	69947
CERS ID:	10448809
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	69947
Site Name:	Caliber Collision center - San Leandro
Violation Date:	01-20-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Violation Notes: Returned to compliance on 01/20/2017. HMBP not recertified annually. Submitted during inspection.
Violation Division: San Leandro City
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-20-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-20-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: HMBP not recertified annually - last submittal 1/28/15. Submitted during inspection.
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-28-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-28-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-01-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-01-2019
Violations Found: No
Eval Type: Routine done by local agency

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Eval Notes: Not reported
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 69947
Site Name: Caliber Collision center - San Leandro
Site Address: 760 139TH AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 01-20-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 69947
Facility Name: Caliber Collision center - San Leandro
Env Int Type Code: HWG
Program ID: 10448809
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.709840
Longitude: -122.143670

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Leandro City
Entity Title: Not reported
Affiliation Address: 835 East 14th Street
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94577
Affiliation Phone: (510) 577-3401

Affiliation Type Desc: Document Preparer
Entity Name: Allison Kahl
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Christine Abad
Entity Title: Not reported
Affiliation Address: 2018 Roseville Rd
Affiliation City: Roseville
Affiliation State: CA

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Affiliation Country:	Not reported
Affiliation Zip:	95678
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Nick Quadrato
Entity Title:	Center Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Glen Stuhlmacher II and Julie A. Stuhlmacher
Entity Title:	Not reported
Affiliation Address:	5 Cuenca Court
Affiliation City:	San Ramon
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94583
Affiliation Phone:	(925) 830-8804
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	760 139th Avenue
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94578
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	CALIBER COLLISION CENTER
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 357-3883
Affiliation Type Desc:	Parent Corporation
Entity Name:	Caliber Bodyworks, Inc. dba Caliber Collision Centers
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Caliber Bodyworks, Inc.
Entity Title:	Not reported

CALIBER COLLISION CENTER - SAN LEANDRO (Continued) **S113075590**

Affiliation Address:	2941 Lake Vista
Affiliation City:	Lewisville
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	75067
Affiliation Phone:	(469) 948-9630

HWTS:

Name:	SPECTRUM BODY AND PAINT
Address:	760 139TH AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945780000
EPA ID:	CAL000138448
Inactive Date:	06/30/2019
Create Date:	08/04/1995
Last Act Date:	10/11/2019
Mailing Name:	Not reported
Mailing Address:	45 CUENCA CT.
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN RAMON, CA 945830000
Owner Name:	GLEN AND RANDY STUHLMACHER
Owner Address:	45 CUENCA CT.
Owner Address 2:	Not reported
Owner City,State,Zip:	SAN RAMON, CA 945830000
Contact Name:	GLEN STUHLMACHER-PARTNER
Contact Address:	45 CUENCA CT.
Contact Address 2:	Not reported
City,State,Zip:	SAN RAMON, CA 94583

NAICS:

EPA ID:	CAL000138448
Create Date:	2002-12-03 15:25:10.000
NAICS Code:	811121
NAICS Description:	Automotive Body, Paint, and Interior Repair and Maintenance
Issued EPA ID Date:	1995-08-04 00:00:00
Inactive Date:	2019-06-30 00:00:00
Facility Name:	SPECTRUM BODY AND PAINT
Facility Address:	760 139TH AVE
Facility Address 2:	Not reported
Facility City:	SAN LEANDRO
Facility County:	Not reported
Facility State:	CA
Facility Zip:	945780000

90
SW
1/8-1/4
0.173 mi.
912 ft.

AMARAL SAUSAGE
735 FREMONT AVE
SAN LEANDRO, CA 94577

LUST **S102423917**
Cortese **N/A**
HIST CORTESE
CERS

Relative:
Lower

Actual:
35 ft.

LUST:

Name:	AMARAL SAUSAGE
Address:	735 FREMONT AVE
City,State,Zip:	SAN LEANDRO, CA 94577
Lead Agency:	SAN LEANDRO, CITY OF
Case Type:	LUST Cleanup Site

AMARAL SAUSAGE (Continued) **S102423917**

Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101962
Global Id:	T0600101962
Latitude:	37.704651205
Longitude:	-122.14755
Status:	Completed - Case Closed
Status Date:	03/08/2011
Case Worker:	Not reported
RB Case Number:	01-2136
Local Agency:	Not reported
File Location:	Local Agency
Local Case Number:	01-2136
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	500-gal gasoline UST removed 1992. 150 mg/kg TPHg in soil. Benzene ND. Groundwater not encountered.

LUST:

Global Id:	T0600101962
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600101962
Action Type:	RESPONSE
Date:	06/30/1992
Action:	Unauthorized Release Form
Global Id:	T0600101962
Action Type:	RESPONSE
Date:	04/04/1992
Action:	Other Report / Document
Global Id:	T0600101962
Action Type:	RESPONSE
Date:	06/29/1992
Action:	Other Report / Document
Global Id:	T0600101962
Action Type:	ENFORCEMENT
Date:	09/09/2010
Action:	13267 Requirement
Global Id:	T0600101962
Action Type:	Other
Date:	04/03/1992
Action:	Leak Discovery
Global Id:	T0600101962
Action Type:	Other
Date:	04/03/1992
Action:	Leak Stopped

AMARAL SAUSAGE (Continued) **S102423917**

Global Id: T0600101962
Action Type: Other
Date: 07/08/1992
Action: Leak Reported

Global Id: T0600101962
Action Type: RESPONSE
Date: 05/05/1992
Action: Tank Removal Report / UST Sampling Report

LUST:
Global Id: T0600101962
Status: Open - Case Begin Date
Status Date: 04/03/1992

Global Id: T0600101962
Status: Open - Site Assessment
Status Date: 03/05/1996

Global Id: T0600101962
Status: Open - Inactive
Status Date: 12/07/2009

Global Id: T0600101962
Status: Completed - Case Closed
Status Date: 03/08/2011

LUST REG 2:
Region: 2
Facility Id: 01-2136
Facility Status: Leak being confirmed
Case Number: 01-2136
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 3/5/1996
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CORTESE:
Name: AMARAL SAUSAGE
Address: 735 FREMONT AVE
City,State,Zip: SAN LEANDRO, CA 94577
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600101962
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported

AMARAL SAUSAGE (Continued) **S102423917**

Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	AMARAL SAUSAGE
edr_fadd1:	735 FREMONT
City,State,Zip:	SAN LEANDRO, CA 94577
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-2136

CERS:

Name:	AMARAL SAUSAGE
Address:	735 FREMONT AVE
City,State,Zip:	SAN LEANDRO, CA 94577
Site ID:	239241
CERS ID:	T0600101962
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

J91 **COORDINATED WIRE ROPE OF NORTHERN CALIFORNIA** **RCRA NonGen / NLR** **1024835010**
NNE **790 139TH AVE** **CAL000376355**
1/8-1/4 **SAN LEANDRO, CA 94578**
0.184 mi.
972 ft. **Site 1 of 9 in cluster J**

Relative:
Higher

Actual:
46 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2012-07-16 00:00:00.0
Handler Name:	COORDINATED WIRE ROPE OF NORTHERN CALIFORNIA
Handler Address:	790 139TH AVE
Handler City,State,Zip:	SAN LEANDRO, CA 94578
EPA ID:	CAL000376355
Contact Name:	JAIME CAO

COORDINATED WIRE ROPE OF NORTHERN CALIFORNIA (Continued) **1024835010**

Contact Address:	790 139TH AVE
Contact City,State,Zip:	SAN LEANDRO, CA 94578
Contact Telephone:	510-569-6911
Contact Fax:	510-569-6914
Contact Email:	DAVEHERNDON45@GMAIL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	790 139TH AVE
Mailing City,State,Zip:	SAN LEANDRO, CA 94578-0000
Owner Name:	COORDINATED WINE ROPE OF N CA
Owner Type:	Other
Operator Name:	JAIME CAO
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking

COORDINATED WIRE ROPE OF NORTHERN CALIFORNIA (Continued) **1024835010**

Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-06 17:01:05.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JAIME CAO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	790 139TH AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578
Owner/Operator Telephone:	510-569-6911
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	COORDINATED WINE ROPE OF N CA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	790 139TH AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578-0000
Owner/Operator Telephone:	510-569-6911
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2012-07-16 00:00:00.0
Handler Name:	COORDINATED WIRE ROPE OF NORTHERN CALIFORNIA
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No

COORDINATED WIRE ROPE OF NORTHERN CALIFORNIA (Continued) **1024835010**

Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 333924
NAICS Description: INDUSTRIAL TRUCK, TRACTOR, TRAILER, AND STACKER MACHINERY MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

92
ENE
1/8-1/4
0.188 mi.
995 ft.

Relative:
Higher

Actual:
43 ft.

PARKSIDE COMMONS APARTMENTS **LUST** **S101322879**
900 143RD AVE **CPS-SLIC** **N/A**
SAN LEANDRO, CA 94578 **Alameda County CS**
Cortese
HIST CORTESE
CERS

LUST:
Name: PARKSIDE COMMONS APARTMENTS
Address: 900 143RD
City,State,Zip: SAN LEANDRO, CA 94578
Lead Agency: ALAMEDA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101050
Global Id: T0600101050
Latitude: 37.708015
Longitude: -122.141493
Status: Completed - Case Closed
Status Date: 11/25/1996
Case Worker: Not reported
RB Case Number: 01-1140
Local Agency: Not reported
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: RO0000748
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0600101050
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600101050

PARKSIDE COMMONS APARTMENTS (Continued) **S101322879**

Action Type: RESPONSE
Date: 11/25/1996
Action: Correspondence

Global Id: T0600101050
Action Type: Other
Date: 01/01/1985
Action: Leak Reported

Global Id: T0600101050
Action Type: REMEDIATION
Date: 09/09/9999
Action: Excavation

LUST:
Global Id: T0600101050
Status: Open - Case Begin Date
Status Date: 01/01/1985

Global Id: T0600101050
Status: Completed - Case Closed
Status Date: 11/25/1996

LUST REG 2:
Region: 2
Facility Id: 01-1140
Facility Status: Case Closed
Case Number: 4236
How Discovered: Subsurface Monitoring
Leak Cause: UNK
Leak Source: Tank
Date Leak Confirmed: 8/22/1996
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SLIC REG 2:
Region: 2
Facility ID: 01S0454
Facility Status: Preliminary site assessment workplan submitted
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: 3/1/1991
Date Preliminary Site Assessment Began: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported

PARKSIDE COMMONS APARTMENTS (Continued) **S101322879**

Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:

Name:	PARKSIDE COMMONS APARTMENTS
Address:	900 143RD AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Status:	Case Closed
Record Id:	RO0000748
PE:	5602
Facility Status:	Case Closed
Latitude:	37.708383941
Longitude:	-122.14131855

CORTESE:

Name:	PARKSIDE COMMONS APARTMENTS
Address:	900 143RD
City,State,Zip:	SAN LEANDRO, CA 94578
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0600101050
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	PARKSIDE COMMONS APARTMEN
edr_fadd1:	900 143RD
City,State,Zip:	SAN LEANDRO, CA 94570
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1140

CERS:

Name:	PARKSIDE COMMONS APARTMENTS
Address:	900 143RD
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	241842
CERS ID:	T0600101050
CERS Description:	Leaking Underground Storage Tank Cleanup Site

PARKSIDE COMMONS APARTMENTS (Continued) **S101322879**

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

J93 **SERVICE PLASTERING INC** **HIST UST** **U001598528**
NNE **1090 139TH AVENUE** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578**
0.194 mi.
1023 ft. **Site 2 of 9 in cluster J**

Relative:
Higher

Actual:
46 ft.

HIST UST:

Name:	SERVICE PLASTERING INC
Address:	1090 139TH AVENUE
City,State,Zip:	SAN LEANDRO, CA 94578
File Number:	00036315
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00036315.pdf
Region:	STATE
Facility ID:	00000005958
Facility Type:	Other
Other Type:	Not reported
Contact Name:	R. G. BROWN
Telephone:	4154839732
Owner Name:	SERVICE PLASTERING, INC.
Owner Address:	1090 -139TH AVENUE
Owner City,St,Zip:	SAN LEANDRO, CA 94578
Total Tanks:	0002
Tank Num:	001
Container Num:	1
Year Installed:	1979
Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Visual
Tank Num:	002
Container Num:	2
Year Installed:	1979
Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Click here for Geo Tracker PDF:

J94 **SERVICE PLASTERING** **LUST** **S101624168**
NNE **1090 139TH AVE** **SWEEPS UST** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578** **CA FID UST**
0.194 mi. **Cortese**
1023 ft. **Site 3 of 9 in cluster J** **HIST CORTESE**
CERS

Relative:
Higher

Actual:
46 ft.

LUST:

Name:	SERVICE PLASTERING
Address:	1090 139TH AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Lead Agency:	SAN LEANDRO, CITY OF
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101216
Global Id:	T0600101216
Latitude:	37.710251
Longitude:	-122.143558
Status:	Completed - Case Closed
Status Date:	04/18/1994
Case Worker:	UNK
RB Case Number:	01-1321
Local Agency:	SAN LEANDRO, CITY OF
File Location:	Not reported
Local Case Number:	01-1321
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0600101216
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0600101216
Contact Type:	Local Agency Caseworker
Contact Name:	UNK
Organization Name:	SAN LEANDRO, CITY OF
Address:	Not reported
City:	r2 UNKNOWN
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600101216
Action Type:	ENFORCEMENT
Date:	04/18/1994
Action:	Closure/No Further Action Letter

Global Id:	T0600101216
Action Type:	ENFORCEMENT
Date:	04/18/1994
Action:	Closure/No Further Action Letter

Global Id: T0600101216

SERVICE PLASTERING (Continued) **S101624168**

Action Type: Other
Date: 05/27/1986
Action: Leak Discovery

Global Id: T0600101216
Action Type: Other
Date: 05/27/1986
Action: Leak Stopped

Global Id: T0600101216
Action Type: Other
Date: 05/27/1986
Action: Leak Reported

LUST:
Global Id: T0600101216
Status: Open - Case Begin Date
Status Date: 04/09/1986

Global Id: T0600101216
Status: Open - Site Assessment
Status Date: 04/09/1986

Global Id: T0600101216
Status: Open - Site Assessment
Status Date: 05/15/1986

Global Id: T0600101216
Status: Completed - Case Closed
Status Date: 04/18/1994

LUST REG 2:
Region: 2
Facility Id: 01-1321
Facility Status: Case Closed
Case Number: 01-1321
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 4/9/1986
Preliminary Site Assesment Began: 5/15/1986
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:
Name: SERVICE PLASTERING, INC.
Address: 1090 139TH AVE
City: SAN LEANDRO
Status: Not reported
Comp Number: 5958
Number: Not reported

SERVICE PLASTERING (Continued) **S101624168**

Board Of Equalization: 44-001056
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-007-005958-000001
Tank Status: Not reported
Capacity: 4000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 2

Name: SERVICE PLASTERING, INC.
Address: 1090 139TH AVE
City: SAN LEANDRO
Status: Not reported
Comp Number: 5958
Number: Not reported
Board Of Equalization: 44-001056
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-007-005958-000002
Tank Status: Not reported
Capacity: 4000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 01001433
Regulated By: UTNKI
Regulated ID: 00005958
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4154839732
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: SAN LEANDRO 94578
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

CORTESE:
Name: SERVICE PLASTERING
Address: 1090 139TH AVE

SERVICE PLASTERING (Continued) **S101624168**

City,State,Zip:	SAN LEANDRO, CA 94578
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0600101216
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	SERVICE PLASTERING
edr_fadd1:	1090 139TH
City,State,Zip:	SAN LEANDRO, CA
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1321

CERS:

Name:	SERVICE PLASTERING
Address:	1090 139TH AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	199206
CERS ID:	T0600101216
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	UNK - SAN LEANDRO, CITY OF
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	r2 UNKNOWN
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA

SERVICE PLASTERING (Continued) **S101624168**

Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

K95 **T.E. BROWN, INC.** **HIST UST** **U001598531**
SE **14361 WASHINGTON AVE** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578**
0.206 mi.
1087 ft. **Site 1 of 2 in cluster K**

Relative: **Higher**
Actual: **39 ft.**

HIST UST:
Name: T.E. BROWN, INC.
Address: 14361 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 94578
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000021920
Facility Type: Other
Other Type: MFG.
Contact Name: WILLIAM B. BROWN
Telephone: 4153574840
Owner Name: T.E. BROWN, INC.
Owner Address: 14361 WASHINGTON AVE.
Owner City,St,Zip: SAN LEANDRO, CA 94578
Total Tanks: 0000

Tank Num: 001
Container Num: 2
Year Installed: 1965
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Not reported

Tank Num: 002
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

K96 **T.E. BROWN, INC.** **SWEEPS UST** **S101624170**
SE **14361 WASHINGTON AVE** **CA FID UST** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578**
0.206 mi.
1087 ft. **Site 2 of 2 in cluster K**

Relative: **Higher**
Actual: **39 ft.**

SWEEPS UST:
Name: T.E. BROWN, INC.
Address: 14361 WASHINGTON AVE
City: SAN LEANDRO

T.E. BROWN, INC. (Continued) **S101624170**

Status: Not reported
Comp Number: 21920
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: 01-007-021920-000001
Tank Status: Not reported
Capacity: 550
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 2

Name: T.E. BROWN, INC.
Address: 14361 WASHINGTON AVE
City: SAN LEANDRO
Status: Not reported
Comp Number: 21920
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: 01-007-021920-000002
Tank Status: Not reported
Capacity: 1
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 01002391
Regulated By: UTNKI
Regulated ID: 00021920
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4153574840
Mail To: Not reported
Mailing Address: 14361 WASHINGTON AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: SAN LEANDRO 94578
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

J97 **GHIRARDELLI CHOCOLATE COMPANY** **RCRA-SQG** **1024875909**
NNE **1111 139TH AVE** **CAL921784174**
1/8-1/4 **SAN LEANDRO, CA 94578**
0.216 mi.
1142 ft. **Site 4 of 9 in cluster J**

Relative: **Higher**

Actual: **47 ft.**

RCRA-SQG:

Date Form Received by Agency:	2020-10-29 00:00:00.0
Handler Name:	GHIRARDELLI CHOCOLATE COMPANY
Handler Address:	1111 139TH AVE
Handler City,State,Zip:	SAN LEANDRO, CA 94578-2631
EPA ID:	CAL921784174
Contact Name:	HELEN TAN
Contact Address:	1111 139TH AVE
Contact City,State,Zip:	SAN LEANDRO, CA 94578
Contact Telephone:	510-207-6923
Contact Fax:	Not reported
Contact Email:	HTAN@GHIRARDELLI.COM
Contact Title:	EH&S MANAGER
EPA Region:	09
Land Type:	Other
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	1111 139TH AVE
Mailing City,State,Zip:	SAN LEANDRO, CA 94578-2631
Owner Name:	GHIRARDELLI HOLDINGS CORP
Owner Type:	Other
Operator Name:	HELEN TAN
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

GHIRARDELLI CHOCOLATE COMPANY (Continued) **1024875909**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-11-03 13:44:38.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D022
Waste Description:	CHLOROFORM

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	GHIRARDELLI HOLDINGS CORP
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1111 139TH AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578-2631
Owner/Operator Telephone:	510-483-6970
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner

GHIRARDELLI CHOCOLATE COMPANY (Continued) **1024875909**

Owner/Operator Name: GHIRARDELLI HOLDINGS CORP
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1111 139TH AVE
Owner/Operator City,State,Zip: SAN LEANDRO, CA 94578-2631
Owner/Operator Telephone: 510-483-6970
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: HELEN TAN
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1111 139TH AVE
Owner/Operator City,State,Zip: SAN LEANDRO, CA 94578-2631
Owner/Operator Telephone: 510-207-6923
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: HTAN@GHIRARDELLI.COM

Owner/Operator Indicator: Operator
Owner/Operator Name: DARRELL THORNHILL
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1111 139 ANENUE
Owner/Operator City,State,Zip: SAN LEANDRO, CA 94578
Owner/Operator Telephone: 510-385-1829
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 1992-06-26 00:00:00.0
Handler Name: GHIRARDELLI CHOCOLATE COMPANY
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2020-10-29 00:00:00.0
Handler Name: GHIRARDELLI CHOCOLATE COMPANY
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No

GHIRARDELLI CHOCOLATE COMPANY (Continued) **1024875909**

Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 31134
NAICS Description: NONCHOCOLATE CONFECTIONERY MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

J98 **GHIRARDELLI CHOCOLATE** **CERS HAZ WASTE** **S121762293**
NNE **1111 139TH AVE** **CERS** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578**
0.216 mi.
1142 ft. **Site 5 of 9 in cluster J**

Relative: Higher
Actual: 47 ft.

CERS HAZ WASTE:
Name: GHIRARDELLI CHOCOLATE
Address: 1111 139TH AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 33156
CERS ID: 10444270
CERS Description: Hazardous Waste Generator

CERS:
Name: GHIRARDELLI CHOCOLATE
Address: 1111 139TH AVE
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 33156
CERS ID: 10444270
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 33156
Site Name: Ghirardelli Chocolate
Violation Date: 11-04-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 11/04/2015. Missing hazardous materials inventories
Violation Division: San Leandro City
Violation Program: HMRRP
Violation Source: CERS

Site ID: 33156
Site Name: Ghirardelli Chocolate
Violation Date: 07-19-2017

GHIRARDELLI CHOCOLATE (Continued) **S121762293**

Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 07/19/2017. Haz waste label contents only says waste
Violation Division:	San Leandro City
Violation Program:	HW
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-19-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Their last full CERS submittal was on 10/18/16. Their next annual submittal is due by 10/18/17. There are some small changes needed in the emergency response plan - see response plan red notes attached to inspection report. There are also two trade secret inventories that need to be changed to not trade secret. One is for acrylic paint and the other is for FG - lubricating oil (page 6 line 3 and page 15 line 3 respectively). None of these changes require a HMBP submittal within 30 days. No other violations were observed.
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-19-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	(1) Keeping hazardous waste paperwork indefinitely. (2) Tracking manifests to ensure they receive signed off TSDF copies. They understand exception reporting requirements. (3) One drum had only "Waste" written under contents/composition. They were instructed on proper labeling requirements and not to use trade names such as isophore. (4) All hazardous waste drums were properly sealed, labeled, in excellent condition, inside, and on spill containment pallets. The spill containment pallets were clean and dry. (5) They had two used oil drums with screw in funnels in place. The lids were both down and latched. (6) ER plan okay, but a couple check boxes probably should be checked. They were instructed on the require changes. (7) They are an SQG. They are not required to have someone HAZWOPER trained, but it is highly recommended. No other violations were observed.
Eval Division:	San Leandro City
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-04-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	All hazardous waste containers are kept indoors and on spill pallets. All were properly sealed and all had properly filled out hazardous

GHIRARDELLI CHOCOLATE (Continued) **S121762293**

waste labels. No violations were observed.
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-04-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: (1) Diesel AST hazardous material inventory missing. (2) Food grade oil drum missing hazardous materials inventory. (3) Boiler chemical missing hazardous materials inventory. All other items of HMBP present. The missing inventories were added to CERS before I left the site. No other violations were observed.
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 33156
Site Name: Ghirardelli Chocolate
Site Address: 1111 139TH AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 07-19-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 33156
Site Name: Ghirardelli Chocolate
Site Address: 1111 139TH AVE
Site City: SAN LEANDRO
Site Zip: 94578
Enf Action Date: 11-04-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Leandro City
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 33156
Facility Name: Ghirardelli Chocolate
Env Int Type Code: HWG
Program ID: 10444270
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.711100
Longitude: -122.144860

GHIRARDELLI CHOCOLATE (Continued) **S121762293**

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Helen Tan
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1111 139th Avenue
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94578
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Samuel Berneggar
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 325-2415

Affiliation Type Desc:	Parent Corporation
Entity Name:	Ghirardelli Chocolate
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Ghirardelli Chocolate
Entity Title:	Not reported
Affiliation Address:	1111 139th Ave
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94578
Affiliation Phone:	(800) 877-9338

Affiliation Type Desc:	Property Owner
Entity Name:	Joel Burrows (CEO)
Entity Title:	Not reported
Affiliation Address:	1111 139th Avenue
Affiliation City:	San Leandro
Affiliation State:	CA

GHIRARDELLI CHOCOLATE (Continued) **S121762293**

Affiliation Country:	United States
Affiliation Zip:	94578
Affiliation Phone:	(800) 877-9338
Affiliation Type Desc:	CUPA District
Entity Name:	San Leandro City
Entity Title:	Not reported
Affiliation Address:	835 East 14th Street
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	(510) 577-3401
Affiliation Type Desc:	Environmental Contact
Entity Name:	Helen Tan
Entity Title:	Not reported
Affiliation Address:	1111 139th Avenue
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94578
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Helen Tan
Entity Title:	EH&S Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

J99 **GHIRARDELLI CHOCOLATE CO** **LUST** **1000206507**
NNE **1111 139TH AVE** **Alameda County CS** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578** **SWEEPS UST**
0.216 mi. **HIST UST**
1142 ft. **Site 6 of 9 in cluster J** **CA FID UST**
Cortese
Relative: **HIST CORTESE**
Higher **NPDES**
Actual: **CIWQS**
47 ft. **CERS**

LUST:

Name:	GHIRARDELLI PROPERTY
Address:	1111 139TH
City,State,Zip:	SAN LEANDRO, CA 94578
Lead Agency:	ALAMEDA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100653
Global Id:	T0600100653
Latitude:	37.711716
Longitude:	-122.144945
Status:	Completed - Case Closed
Status Date:	02/23/1994

GHIRARDELLI CHOCOLATE CO (Continued) **1000206507**

Case Worker: Not reported
RB Case Number: NA
Local Agency: Not reported
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: RO0002724
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Not reported
Site History: Not reported

LUST:
Global Id: T0600100653
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600100653
Status: Completed - Case Closed
Status Date: 02/23/1994

Global Id: T0600100653
Status: Open - Case Begin Date
Status Date: 02/23/1994

LUST REG 2:
Region: 2
Facility Id: 01-0709
Facility Status: Case Closed
Case Number: 01-0709
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 7/27/1988
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Name: GHIRARDELLI PROPERTY
Address: 1111 139TH AVE
City,State,Zip: SAN LEANDRO, CA 94578
Status: Case Closed
Record Id: RO0002724
PE: 5502
Facility Status: Case Closed
Latitude: 37.711367747
Longitude: -122.14289785

GHIRARDELLI CHOCOLATE CO (Continued) **1000206507**

SWEEPS UST:

Name:	GOLDEN GRAIN
Address:	1111 139TH AVE
City:	SAN LEANDRO
Status:	Not reported
Comp Number:	19778
Number:	Not reported
Board Of Equalization:	44-001100
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	01-007-019778-000001
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	4

Name:	GOLDEN GRAIN
Address:	1111 139TH AVE
City:	SAN LEANDRO
Status:	Not reported
Comp Number:	19778
Number:	Not reported
Board Of Equalization:	44-001100
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	01-007-019778-000002
Tank Status:	Not reported
Capacity:	8000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	Not reported

Name:	GOLDEN GRAIN
Address:	1111 139TH AVE
City:	SAN LEANDRO
Status:	Not reported
Comp Number:	19778
Number:	Not reported
Board Of Equalization:	44-001100
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	01-007-019778-000003
Tank Status:	Not reported
Capacity:	5000
Active Date:	Not reported
Tank Use:	EMPTY

GHIRARDELLI CHOCOLATE CO (Continued) **1000206507**

STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Name: GOLDEN GRAIN
Address: 1111 139TH AVE
City: SAN LEANDRO
Status: Not reported
Comp Number: 19778
Number: Not reported
Board Of Equalization: 44-001100
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-007-019778-000004
Tank Status: Not reported
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

HIST UST:
Name: GOLDEN GRAIN MACARONI COMPANY
Address: 1111 139TH AVENUE
City,State,Zip: SAN LEANDRO, CA 94578
File Number: 00035FFA
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00035FFA.pdf
Region: STATE
Facility ID: 00000019778
Facility Type: Other
Other Type: MACARONI & CHOCOLATE
Contact Name: Not reported
Telephone: 4153578400
Owner Name: GOLDEN GRAIN MACARONI COMPANY
Owner Address: 1111 139TH AVENUE
Owner City,St,Zip: SAN LEANDRO, CA 94578
Total Tanks: 0004

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported

GHIRARDELLI CHOCOLATE CO (Continued) **1000206507**

Leak Detection: Visual

Tank Num: 003
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 004
Container Num: 4
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 01000831
Regulated By: UTNKI
Regulated ID: 00019778
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 1111 139TH AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: SAN LEANDRO 94578
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

CORTESE:
Name: GHIRARDELLI PROPERTY
Address: 1111 139TH
City,State,Zip: SAN LEANDRO, CA 94578
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600100653
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported

GHIRARDELLI CHOCOLATE CO (Continued) **1000206507**

Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	GOLDEN GRAINS
edr_fadd1:	1111 139TH
City,State,Zip:	SAN LEANDRO, CA
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0709

NPDES:

Name:	GHIRARDELLI CHOCOLATE COMPANY
Address:	1111 139TH AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Facility Status:	Active
NPDES Number:	CAS000001
Region:	2
Agency Number:	0
Regulatory Measure ID:	363981
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	2 01I022109
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/20/2009
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	1111 139th Ave
Discharge Name:	Ghirardelli Chocolate Company
Discharge City:	San Leandro
Discharge State:	California
Discharge Zip:	94578
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	363981

GHIRARDELLI CHOCOLATE CO (Continued) **1000206507**

Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 01I022109
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:	04/15/2009
Processed Date:	04/20/2009
Status:	Active
Status Date:	04/20/2009
Place Size:	539168
Place Size Unit:	SqFt
Contact:	Darrell Thornhill
Contact Title:	Not reported
Contact Phone:	510-346-3132
Contact Phone Ext:	Not reported
Contact Email:	dthornhill@lindt.com
Operator Name:	Ghirardelli Chocolate Company
Operator Address:	1111 139th Ave
Operator City:	San Leandro
Operator State:	California
Operator Zip:	94578
Operator Contact:	Darrell Thornhill
Operator Contact Title:	Safety Mgr
Operator Contact Phone:	510-346-3132
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	dthornhill@ghirardelli.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	510-385-1829
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported

GHIRARDELLI CHOCOLATE CO (Continued) **1000206507**

Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Estudillo Canal
Certifier:	Darrell Thornhill
Certifier Title:	Safety Manager
Certification Date:	19-MAY-15
Primary Sic:	2064-Candy and Other Confectionery Products
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	363981
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01I022109
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/20/2009
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Ghirardelli Chocolate Company
Discharge Address:	1111 139th Ave
Discharge City:	San Leandro
Discharge State:	California
Discharge Zip:	94578
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
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:	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:	Not reported
Developer Address:	Not reported

GHIRARDELLI CHOCOLATE CO (Continued) **1000206507**

Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	GHIRARDELLI CHOCOLATE COMPANY
Address:	1111 139TH AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 01I022109
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active

GHIRARDELLI CHOCOLATE CO (Continued) **1000206507**

Status Date:	04/20/2009
Operator Name:	Ghirardelli Chocolate Company
Operator Address:	1111 139th Ave
Operator City:	San Leandro
Operator State:	California
Operator Zip:	94578

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	363981
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 01I022109
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:	04/15/2009
Processed Date:	04/20/2009
Status:	Active
Status Date:	04/20/2009
Place Size:	539168
Place Size Unit:	SqFt
Contact:	Darrell Thornhill
Contact Title:	Not reported
Contact Phone:	510-346-3132
Contact Phone Ext:	Not reported
Contact Email:	dthornhill@lindt.com
Operator Name:	Ghirardelli Chocolate Company
Operator Address:	1111 139th Ave
Operator City:	San Leandro
Operator State:	California
Operator Zip:	94578
Operator Contact:	Darrell Thornhill
Operator Contact Title:	Safety Mgr
Operator Contact Phone:	510-346-3132
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	dthornhill@ghirardelli.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	510-385-1829

GHIRARDELLI CHOCOLATE CO (Continued) **1000206507**

Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Estudillo Canal
Certifier:	Darrell Thornhill
Certifier Title:	Safety Manager
Certification Date:	19-MAY-15
Primary Sic:	2064-Candy and Other Confectionery Products
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	363981
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01I022109
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	04/20/2009
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Ghirardelli Chocolate Company
Discharge Address:	1111 139th Ave
Discharge City:	San Leandro
Discharge State:	California
Discharge Zip:	94578
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported

GHIRARDELLI CHOCOLATE CO (Continued) **1000206507**

Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	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:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	GHIRARDELLI CHOCOLATE CO
Address:	1111 139TH AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	Not reported

GHIRARDELLI CHOCOLATE CO (Continued) **1000206507**

Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Returned
Status Date:	04/24/2009
Operator Name:	Ghirardelli Chocolate Co
Operator Address:	1111 139th Ave
Operator City:	San Leandro
Operator State:	California
Operator Zip:	94578

CIWQS:

Name:	GHIRARDELLI CHOCOLATE COMPANY
Address:	1111 139TH AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Agency:	Ghirardelli Chocolate Company
Agency Address:	1111 139th Ave, San Leandro, CA 94578
Place/Project Type:	Industrial - Candy and Other Confectionery Products
SIC/NAICS:	2064
Region:	2
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 01I022109
NPDES Number:	CAS000001
Adoption Date:	01/01/1900
Effective Date:	04/20/2009
Termination Date:	01/01/1900
Expiration/Review Date:	01/01/1900
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	1
Violations within 5 years:	1
Latitude:	37.71096
Longitude:	-122.14317

CERS:

Name:	GHIRARDELLI CHOCOLATE COMPANY
Address:	1111 139TH AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	532757
CERS ID:	736358
CERS Description:	Industrial Facility Storm Water

Evaluation:

Eval General Type:	Compliance Evaluation Inspection

GHIRARDELLI CHOCOLATE CO (Continued) **1000206507**

Eval Date:	10-02-2018
Violations Found:	No
Eval Type:	Industrial Storm Water Compliance Evaluation
Eval Notes:	The site manufactures and packages chocolate candy. The site has outdoor storage of sugar in silos, unloading and loading areas for raw materials and product. Housekeeping is good in the outdoor industrial areas. Check housekeeping and keep bins closed when not in use in the contractor and recycling bin areas. Improve leak, drip and spill control best management practices where trucks and forklifts park. The inspection was prompted by a late annual report. Water Board staff discussed the issue with Benoit Girodie, Manager of engineering and maintenance. The required notices of non compliance were sent to the facility. The facility is working on obtaining the necessary information and submitting the annual report.
Eval Division:	Water Boards
Eval Program:	INDSTW
Eval Source:	SMARTS

Affiliation:

Affiliation Type Desc:	Owner/Operator
Entity Name:	Ghirardelli Chocolate Company
Entity Title:	Operator
Affiliation Address:	1111 139th Ave
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94578
Affiliation Phone:	Not reported

Name:	GHIRARDELLI PROPERTY
Address:	1111 139TH
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	238773
CERS ID:	T0600100653
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

J100 **GHIRARDELLI CHOCOLATE CO** **RCRA NonGen / NLR** **1004442086**
NNE **1111 139TH AVENUE** **FINDS** **CAD009129768**
1/8-1/4 **SAN LEANDRO, CA 94578** **ECHO**
0.216 mi.
1142 ft. **Site 7 of 9 in cluster J**

Relative:
Higher

Actual:
47 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	1992-06-30 00:00:00.0
Handler Name:	GHIRARDELLI CHOCOLATE CO
Handler Address:	1111 139TH AVE
Handler City,State,Zip:	SAN LEANDRO, CA 94578
EPA ID:	CAD009129768
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	CA
State District:	2
Mailing Address:	1111 139TH AVE
Mailing City,State,Zip:	SAN LEANDRO, CA 94578
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	NOT REQUIRED
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

GHIRARDELLI CHOCOLATE CO (Continued) **1004442086**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2002-06-27 03:23:30.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	GHIRARDELLI HOLDINGS CORP
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1111 139TH AVE
Owner/Operator City,State,Zip:	SAN LEANDRO, CA 94578
Owner/Operator Telephone:	510-667-6175
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

GHIRARDELLI CHOCOLATE CO (Continued) **1004442086**

Historic Generators:

Receive Date:	1992-06-30 00:00:00.0
Handler Name:	GHIRARDELLI CHOCOLATE CO
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	1992-06-30 00:00:00.0
Handler Name:	GHIRARDELLI CHOCOLATE CO
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110001157211

Click Here:

Environmental Interest/Information System:
OSHA ESTABLISHMENT
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 AIR POLLUTANT MAJOR
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United

GHIRARDELLI CHOCOLATE CO (Continued) **1004442086**

States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
STATE MASTER
Registry ID: 110070288876

Click Here:

Environmental Interest/Information System:
OSHA ESTABLISHMENT
Registry ID: 110011661193

Click Here:

Environmental Interest/Information System:
NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.
Registry ID: 110070335354

Click Here:

Environmental Interest/Information System:
OSHA ESTABLISHMENT

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1004442086
Registry ID:	110001157211
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110001157211
Name:	GHIRARDELLI CHOCOLATE CO
Address:	1111 139TH AVENUE
City,State,Zip:	SAN LEANDRO, CA 94578

J101 **CENTURY PLATING COMPANY INC** **SEMS-ARCHIVE** **1003879619**
NNE **1124 139TH AVE** **LIENS 2** **CAD983608639**
1/8-1/4 **SAN LEANDRO, CA 94578** **PRP**
0.230 mi.
1217 ft. **Site 8 of 9 in cluster J**

Relative: Higher
Actual: 47 ft.

SEMS Archive:

Site ID:	0904216
EPA ID:	CAD983608639
Name:	CENTURY PLATING COMPANY INC
Address:	1124 139TH AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 94578
Cong District:	09
FIPS Code:	06001
FF:	N
NPL:	Not on the NPL
Non NPL Status:	Removal Only Site (No Site Assessment Work Needed)

SEMS Archive Detail:
Region: 09

CENTURY PLATING COMPANY INC (Continued) **1003879619**

Site ID:	0904216
EPA ID:	CAD983608639
Site Name:	CENTURY PLATING COMPANY INC
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1996-01-23 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	09
Site ID:	0904216
EPA ID:	CAD983608639
Site Name:	CENTURY PLATING COMPANY INC
NPL:	N
FF:	N
OU:	00
Action Code:	RC
Action Name:	RVL CRP
SEQ:	1
Start Date:	1991-11-04 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0904216
EPA ID:	CAD983608639
Site Name:	CENTURY PLATING COMPANY INC
NPL:	N
FF:	N
OU:	00
Action Code:	RV
Action Name:	RMVL
SEQ:	1
Start Date:	1991-11-04 05:00:00
Finish Date:	1993-09-30 04:00:00
Qual:	C
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0904216
EPA ID:	CAD983608639
Site Name:	CENTURY PLATING COMPANY INC
NPL:	N
FF:	N
OU:	00
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	1
Start Date:	1991-12-20 05:00:00
Finish Date:	1991-12-20 05:00:00
Qual:	V

CENTURY PLATING COMPANY INC (Continued) **1003879619**

Current Action Lead: EPA Perf

LIENS 2:

Facility Name:	CENTURY PLATING COMPANY INC
Facility Address:	1124 139TH AVE
Facility City:	SAN LEANDRO
EPA ID:	CAD983608639
Effective Date:	Not reported
Facility State:	CA
Lien:	LP-1
Facility Zip:	94578
Party Name:	Not reported
Reg:	9
Release Date:	Not reported
Start Date:	11/04/1992
Complete Date:	Not reported
Party Name:	Not reported
Party Name:	Not reported
Party Name:	Not reported
Party Name:	Not reported
Party Name:	Not reported
Party Name:	Not reported
Party Name:	Not reported
Party Name:	Not reported
Party Name:	Not reported
Party Name:	Not reported
Party Name:	Not reported
Party Name:	Not reported
Address:	Not reported

PRP:

PRP Name:	CENTURY PLATING CO
	CENTURY PLATING COMPNAY,INC.
	EDGAR R. CONDER
	WAYNE W. MCMAHON

J102 **CENTURY PLATING COMPANY INC** **RESPONSE** **1000483604**
NNE **1124 139TH AVENUE** **ENVIROSTOR** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578** **HIST Cal-Sites**
0.230 mi. **LIENS**
1217 ft. **Site 9 of 9 in cluster J** **HIST CORTESE**

Relative: Higher

Actual: 47 ft.

RESPONSE:

Name:	CENTURY PLATING COMPANY INC
Address:	1124 139TH AVENUE
City,State,Zip:	SAN LEANDRO, CA 94578
Facility ID:	01340040
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	0.5
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, US EPA
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Jayantha Randeni
Supervisor:	Cheryl Prowell
Division Branch:	Cleanup Berkeley
Site Code:	200650
Site Mgmt. Req.:	NONE SPECIFIED

CENTURY PLATING COMPANY INC (Continued) **1000483604**

Assembly:	18
Senate:	09
Special Program Status:	Not reported
Status:	Certified
Status Date:	06/13/1997
Restricted Use:	NO
Funding:	Orphan Funds
Latitude:	37.71065
Longitude:	-122.1430
APN:	77D-1437-14-3, 77D-1437-15-1
Past Use:	METAL PLATING - CHROME, METAL PLATING - OTHER
Potential COC :	Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE
Potential Description:	OTH, SOIL
Alias Name:	PADDY O'CHROME
Alias Type:	Alternate Name
Alias Name:	77D-1437-14-3
Alias Type:	APN
Alias Name:	77D-1437-15-1
Alias Type:	APN
Alias Name:	110033619458
Alias Type:	EPA (FRS #)
Alias Name:	200650
Alias Type:	Project Code (Site Code)
Alias Name:	01340040
Alias Type:	Envirostor ID Number
Alias Name:	01990002
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Lien
Completed Date:	09/16/1998
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	10/25/1991
Comments:	Administrative Order issued by US EPA to property owners to undertake and complete removal activities.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	06/13/1997
Comments:	The site was certified as requiring no further remedial action. SVE system was removed from site and extractions wells have been closed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Initial Study/ Neg. Declaration
Completed Date:	02/15/1996
Comments:	Negative Declaration approved for RAW.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

CENTURY PLATING COMPANY INC (Continued) **1000483604**

Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 12/29/1992
Comments: Issued I&SE Order to the 139th Avenue Sites requiring further remedial investigation and cleanup.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 03/14/1997
Comments: Completed removal action. Three soil vapor extraction wells were installed, the yard has been paved, 80 cubic yards of contaminated soil were excavated and disposed, and a new floor slab was installed in the building.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 02/15/1996
Comments: Removal Action Workplan approved which requires the removal of several soil hotspots in the building by excavation, and installation of a vapor barrier floor. In the Yard area, 3-5 Soil Vapor Extraction wells was installed to lower concentrations of VOCs at depth in the soils. The yard will also be paved as part of the removal action. The extraction system is expected to operated for approximately 6 months.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 02/28/1995
Comments: Public Participation Plan for the San Leandro Plume approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 09/30/1992
Comments: U.S. EPA removed drums of chemicals, contaminated equipment, and debris from the building and adjoining yard. Six inches of surface soil, contaminated primarily with metals, was removed from the yard and a private well was closed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 01/20/1995
Comments: RI found that soil and groundwater is contaminated with VOCs.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 10/19/1995
Comments: Investigation found soil, soil gas and groundwater contaminated with tetrachloroethelene (PCE).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 05/30/1997

CENTURY PLATING COMPANY INC (Continued) **1000483604**

Comments:	Approximately 30 lbs of volatile organic compounds (VOC) were removed by the soil vapor extraction system (SVE). Confirmation soil samples showed that VOCs were below the clean up goals. SVE was removed from the site and wells were abandoned.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	12/26/1996
Comments:	Existing concrete floor and sumps inside the building were removed. 80 cubic yards of contaminated soil were excavated and disposed off site. Installed three Soil Vapor Extraction (SVE) wells.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	01/04/1996
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	06/19/1995
Comments:	VOC's were detected at levels that indicated that there had been a release of hazardous substances at the site. PCE and TCE were detected in several samples.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	08/01/1992
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	08/13/1993
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	02/28/1993
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	11/01/1994
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	02/09/1995
Comments:	Not reported

CENTURY PLATING COMPANY INC (Continued) **1000483604**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	11/01/1993
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	12/26/1996
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Design
Completed Date:	06/24/1996
Comments:	Approved design for excavation, vapor venting system and paving of the yard area of the site. Additional work will include installation of three soil vapor extraction wells and a carbon system for treatment of the soil vapor prior to release to the atmosphere.

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

ENVIROSTOR:

Name:	CENTURY PLATING COMPANY INC
Address:	1124 139TH AVENUE
City,State,Zip:	SAN LEANDRO, CA 94578
Facility ID:	01340040
Status:	Certified
Status Date:	06/13/1997
Site Code:	200650
Site Type:	State Response
Site Type Detailed:	State Response or NPL
Acres:	0.5
NPL:	NO
Regulatory Agencies:	SMBRP, US EPA
Lead Agency:	SMBRP
Program Manager:	Jayantha Randeni
Supervisor:	Cheryl Prowell
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Orphan Funds
Latitude:	37.71065
Longitude:	-122.1430
APN:	77D-1437-14-3, 77D-1437-15-1

CENTURY PLATING COMPANY INC (Continued) **1000483604**

Past Use: METAL PLATING - CHROME, METAL PLATING - OTHER
Potential COC: Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC: Tetrachloroethylene (PCE Trichloroethylene (TCE
Potential Description: OTH, SOIL
Alias Name: PADDY O'CHROME
Alias Type: Alternate Name
Alias Name: 77D-1437-14-3
Alias Type: APN
Alias Name: 77D-1437-15-1
Alias Type: APN
Alias Name: 110033619458
Alias Type: EPA (FRS #)
Alias Name: 200650
Alias Type: Project Code (Site Code)
Alias Name: 01340040
Alias Type: Envirostor ID Number
Alias Name: 01990002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Lien
Completed Date: 09/16/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 10/25/1991
Comments: Administrative Order issued by US EPA to property owners to undertake and complete removal activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/13/1997
Comments: The site was certified as requiring no further remedial action. SVE system was removed from site and extractions wells have been closed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 02/15/1996
Comments: Negative Declaration approved for RAW.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 12/29/1992
Comments: Issued I&SE Order to the 139th Avenue Sites requiring further remedial investigation and cleanup.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 03/14/1997
Comments: Completed removal action. Three soil vapor extraction wells were

CENTURY PLATING COMPANY INC (Continued) **1000483604**

installed, the yard has been paved, 80 cubic yards of contaminated soil were excavated and disposed, and a new floor slab was installed in the building.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 02/15/1996
Comments: Removal Action Workplan approved which requires the removal of several soil hotspots in the building by excavation, and installation of a vapor barrier floor. In the Yard area, 3-5 Soil Vapor Extraction wells was installed to lower concentrations of VOCs at depth in the soils. The yard will also be paved as part of the removal action. The extraction system is expected to operated for approximately 6 months.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 02/28/1995
Comments: Public Participation Plan for the San Leandro Plume approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 09/30/1992
Comments: U.S. EPA removed drums of chemicals, contaminated equipment, and debris from the building and adjoining yard. Six inches of surface soil, contaminated primarily with metals, was removed from the yard and a private well was closed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 01/20/1995
Comments: RI found that soil and groundwater is contaminated with VOCs.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 10/19/1995
Comments: Investigation found soil, soil gas and groundwater contaminated with tetrachloroethelene (PCE).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 05/30/1997
Comments: Approximately 30 lbs of volatile organic compounds (VOC) were removed by the soil vapor extraction system (SVE). Confirmation soil samples showed that VOCs were below the clean up goals. SVE was removed from the site and wells were abandoned.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/26/1996
Comments: Existing concrete floor and sumps inside the building were removed.

CENTURY PLATING COMPANY INC (Continued) **1000483604**

80 cubic yards of contaminated soil were excavated and disposed off site. Installed three Soil Vapor Extraction (SVE) wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 01/04/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/19/1995
Comments: VOC's were detected at levels that indicated that there had been a release of hazardous substances at the site. PCE and TCE were detected in several samples.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/01/1992
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/13/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/28/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/01/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/09/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/01/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/26/1996

CENTURY PLATING COMPANY INC (Continued) **1000483604**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Design
Completed Date: 06/24/1996
Comments: Approved design for excavation, vapor venting system and paving of the yard area of the site. Additional work will include installation of three soil vapor extraction wells and a carbon system for treatment of the soil vapor prior to release to the atmosphere.

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

Calsite:
Name: CENTURY PLATING COMPANY INC
Address: 1124 139TH AVENUE
City: SAN LEANDRO
Region: BERKELEY
Facility ID: 01340040
Facility Type: STATE
Type: STATE FUNDED SITE
Branch: NC
Branch Name: NORTH COAST
File Name: Not reported
State Senate District: 06131997
Status: CERTIFIED AS HAVING BEEN REMEDIED SATISFACTORILY UNDER DTSC OVERSIGHT
Status Name: CERTIFIED
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Not Listed
SIC Code: 34
SIC Name: MANU - FABRICATED METAL PRODUCTS
Access: Controlled
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported
Staff Member Responsible for Site: JSOTO
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 18
State Senate District Code: 10
Facility ID: 01340040
Activity: PPP
Activity Name: PUBLIC PARTICIPATION PLAN

CENTURY PLATING COMPANY INC (Continued) **1000483604**

AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	11301986
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340040
Activity:	FRIFS
Activity Name:	FOCUSED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
AWP Code:	WELLS
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08301991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340040
Activity:	FRIFS
Activity Name:	FOCUSED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
AWP Code:	GWOFF
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06041992
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT

CENTURY PLATING COMPANY INC (Continued) **1000483604**

Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340040
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09301992
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340040
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	ISEO
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	12291992
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0

CENTURY PLATING COMPANY INC (Continued) **1000483604**

For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340040
Activity:	PPP
Activity Name:	PUBLIC PARTICIPATION PLAN
AWP Code:	UPDTE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	02281995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340040
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	SOIL
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	02151996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340040
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	SOIL
Proposed Budget:	0
AWP Completion Date:	Not reported

CENTURY PLATING COMPANY INC (Continued) **1000483604**

Revised Due Date:	Not reported
Comments Date:	12271996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	80
Liquids Treated (Gals):	0
Action Included Capping:	X
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	80 CUBIC YARDS WAS EXCAVATED AND DISPOSED. 3 SOIL VAPOR EXTRACTIONWELLS WERE INSTALLED.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340040
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	NEGD
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	02151996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340040
Activity:	DES
Activity Name:	DESIGN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06241996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0

CENTURY PLATING COMPANY INC (Continued) **1000483604**

Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01340040
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06131997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	CERT
Definition of Status:	CERTIFIED
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	1124 139TH AVENUE
Alternate City,St,Zip:	SAN LEANDRO, CA 94578
Background Info:	plating shop at this location for approximately 8 years. At that time, Century was shut down by local authorities for noncompliance with fire and building codes and for unpermitted discharges to the sanitary sewer. Subsequently, U.S. EPA removed drums of chemicals, contaminated equipment, and debris from the building and adjoining yard. Six inches of surface soil, contaminated primarily with metals, was removed from the yard and a private well was closed. Soil under the building was contaminated with solvents and metals and was believed to be the source of groundwater contamination in the area. Groundwater samples had detected perchloroethene and trichlorethene above the drinking water standards. The plume migrating from this Site is part of the commingled plume which has been named DWA Plume. The groundwater investigation of this site will be carried out as part of the investigation of the San Leandro Plume. Please also review that profile report for further information. Century Plating Company, Inc. operated a plating and machine shop at 1124 139th Avenue from about 1973 until October 1991. Prior to Century Plating, Inc., Paddy O'Chrome operated a
Comments Date:	02151996
Comments:	RAW - SOIL - Removal Action Workplan approved which requires the

CENTURY PLATING COMPANY INC (Continued) **1000483604**

Comments Date:	02151996
Comments:	removal of several soil hotspots in the building by excavation,
Comments Date:	02151996
Comments:	and installation of a vapor barrier floor. In the Yard area,
Comments Date:	02151996
Comments:	3-5 Soil Vapor Extraction wells will be installed to lower
Comments Date:	02151996
Comments:	concentrations of VOCs at depth in the soils. The yard will
Comments Date:	02151996
Comments:	also be paved as part of the removal action. The extraction
Comments Date:	02151996
Comments:	system is expected to operated for approximately 6 months. CEQA
Comments Date:	02151996
Comments:	- NEGD - Negative Declaration approved.
Comments Date:	06131997
Comments:	CERT - The site was certified as requiring no further remedial
Comments Date:	06131997
Comments:	action. SVE system was removed from site and extractions wells
Comments Date:	06131997
Comments:	have been closed.
Comments Date:	06241996
Comments:	DES - Approved design for excavation, vapor venting system and
Comments Date:	06241996
Comments:	paving of the yard area of the site. Additional work will
Comments Date:	06241996
Comments:	include installation of three soil vapor extraction wells and a
Comments Date:	06241996
Comments:	carbon system for treatment of the soil vapor prior to release
Comments Date:	06241996
Comments:	to the atmosphere.
Comments Date:	09161998
Comments:	LIEN - Recorded a lien for $461,969.72 on the two parcels of
Comments Date:	09161998
Comments:	this site, APN 77D-1437-15-1 and 77D-1437-14-3.
Comments Date:	09301992
Comments:	RA - Drums and bins, containing various chemicals and spent
Comments Date:	09301992
Comments:	solutions, and assorted debris were removed from the Century
Comments Date:	09301992
Comments:	Plating shop building and from the yard.
Comments Date:	10251991
Comments:	Administrative Order issued by US EPA to RP to undertake and
Comments Date:	10251991
Comments:	complete removal activities.
Comments Date:	12271996
Comments:	RA - SOIL - Completed removal action. Three soil vapor
Comments Date:	12271996
Comments:	extraction wells were installed, the yard has been paved, 80
Comments Date:	12271996
Comments:	cubic yards of contaminated soil were excavated and disposed,
Comments Date:	12271996
Comments:	and a new floor slab was installed in the building.
Comments Date:	12291992
Comments:	ORDER - ISEO - Imminent and Substantial Endangerment Order
Comments Date:	12291992
Comments:	issued requiring further remedial investigation and removal of
Comments Date:	12291992

CENTURY PLATING COMPANY INC (Continued) **1000483604**

Comments: contaminated soil.
ID Name: CALSTARS CODE
ID Value: 200650
Alternate Name: CENTURY PLATING COMPANY INC
Alternate Name: PADDY O'CHROME
Alternate Name: Not reported
Special Programs Code: Not reported
Special Programs Name: Not reported

LIENS:
Name: CENTURY PLATING COMPANY INC
City,State,Zip: SAN LEANDRO, CA 94578
Envirostor Id: 1340040
Latitude: 37.710654
Longitude: -122.14309
Project Mgr: JAYANTHA RANDENI
Project Code: 200650
If Satisfied: NO
Date Satisfied: Not reported
Site Status: CERTIFIED
Site Type: STATE RESPONSE OR NPL
Completed: 09/16/1998
Lien Amount: $461,969.72
Amount Remaining: Not reported
APNS: 77D-1437-14-3, 77D-1437-15-1
Description: Century Plating Company, Inc. operated a plating and machine shop at 1124 139th Avenue from about 1973 until October 1991. Prior to Century Plating, Inc., Paddy O'Chrome operated a plating shop at this location for approximately 8 years. At that time, Century was shut down by local authorities for noncompliance with fire and building codes and for unpermitted discharges to the sanitary sewer. The Site is located within a regional groundwater contamination located in the central area of the City of San Leandro. (See DWA Plume, Envirostor Ref. 01990002)

HIST CORTESE:
edr_fname: CENTURY PLATING COMPANY I
edr_fadd1: 1124 139TH
City,State,Zip: SAN LEANDRO, CA 94578
Region: CORTESE
Facility County Code: 1
Reg By: CALSI
Reg Id: 01340040

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103 **SAN FRANCISCO NIKE 31** **RESPONSE** **S107737250**
WNW **ENVIROSTOR** **N/A**
1/4-1/2 **SAN LEANDRO, CA**
0.281 mi.
1482 ft.

Relative: **Higher**

Actual: **39 ft.**

RESPONSE:
Name: SAN FRANCISCO NIKE 31
Address: Not reported
City,State,Zip: SAN LEANDRO, CA
Facility ID: 80000548
Site Type: State Response
Site Type Detail: FUDS

SAN FRANCISCO NIKE 31 (Continued) **S107737250**

Acres:	5
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Carrie Tatoian-Cain
Supervisor:	Dan Ward
Division Branch:	Engineering & Special Projects
Site Code:	Not reported
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	18
Senate:	09
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	06/15/2017
Restricted Use:	NO
Funding:	DERA
Latitude:	37.70777
Longitude:	-122.1513
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC :	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA99799F599100
Alias Type:	Federal Facility ID
Alias Name:	J09CA1103
Alias Type:	INPR
Alias Name:	80000548
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	No Department of Defense Action Indicated (NDAI)
Completed Date:	02/29/2012
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	No Department of Defense Action Indicated (NDAI)
Completed Date:	06/15/2017
Comments:	This determination is based on information in DTSC s possession at this time concerning Department of Defense (DoD) activities on the site listed above. DTSC reserves the right to address any appropriate environmental or human health related issue, should additional information concerning the environmental condition of this site becomes available in the future.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	09/22/1995
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported

SAN FRANCISCO NIKE 31 (Continued) **S107737250**

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

ENVIROSTOR:
Name: SAN FRANCISCO NIKE 31
Address: Not reported
City,State,Zip: SAN LEANDRO, CA
Facility ID: 80000548
Status: No Further Action
Status Date: 06/15/2017
Site Code: Not reported
Site Type: State Response
Site Type Detailed: FUDS
Acres: 5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Carrie Tatoian-Cain
Supervisor: Dan Ward
Division Branch: Engineering & Special Projects
Assembly: 18
Senate: 09
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 37.70777
Longitude: -122.1513
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA99799F599100
Alias Type: Federal Facility ID
Alias Name: J09CA1103
Alias Type: INPR
Alias Name: 80000548
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Department of Defense Action Indicated (NDAI)
Completed Date: 02/29/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Department of Defense Action Indicated (NDAI)
Completed Date: 06/15/2017
Comments: This determination is based on information in DTSC s possession at this time concerning Department of Defense (DoD) activities on the site listed above. DTSC reserves the right to address any appropriate

SAN FRANCISCO NIKE 31 (Continued) **S107737250**

environmental or human health related issue, should additional information concerning the environmental condition of this site becomes available in the future.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	09/22/1995
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

L104 **FIRE STATION 12** **LUST** **S105692566**
NE **1065 143RD AVE** **Cortese** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94578**
0.287 mi.
1515 ft. **Site 1 of 2 in cluster L**

Relative:
Higher

Actual:
47 ft.

LUST REG 2:

Region:	2
Facility Id:	01-2579
Facility Status:	Case Closed
Case Number:	Not reported
How Discovered:	VS
Leak Cause:	Other Cause
Leak Source:	Tank
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

CORTESE:

Name:	FIRE STATION 12
Address:	1065 143RD AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0600191578
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported

FIRE STATION 12 (Continued) **S105692566**

Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

L105 **FIRE STATION 12** **LUST** **U001598511**
NE **1065 143RD AVE** **HIST UST** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94578** **CERS**
0.287 mi.
1515 ft. **Site 2 of 2 in cluster L**

Relative:
Higher

Actual:
47 ft.

LUST:

Name:	FIRE STATION 12
Address:	1065 143RD AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600191578
Global Id:	T0600191578
Latitude:	37.709295
Longitude:	-122.140493
Status:	Completed - Case Closed
Status Date:	10/16/2002
Case Worker:	UUU
RB Case Number:	01-2579
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0600191578
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600191578
Action Type:	ENFORCEMENT
Date:	10/16/2002
Action:	Closure/No Further Action Letter

Global Id:	T0600191578
Action Type:	ENFORCEMENT
Date:	11/17/2000

FIRE STATION 12 (Continued) **U001598511**

Action: Technical Correspondence / Assistance / Other

Global Id: T0600191578
Action Type: Other
Date: 05/27/1998
Action: Leak Began

Global Id: T0600191578
Action Type: Other
Date: 05/27/1998
Action: Leak Discovery

Global Id: T0600191578
Action Type: Other
Date: 05/27/1998
Action: Leak Stopped

Global Id: T0600191578
Action Type: Other
Date: 05/27/1998
Action: Leak Reported

Global Id: T0600191578
Action Type: REMEDIATION
Date: 05/27/1998
Action: Excavation

Global Id: T0600191578
Action Type: REMEDIATION
Date: 10/28/2000
Action: Pump & Treat (P&T) Groundwater

Global Id: T0600191578
Action Type: REMEDIATION
Date: 12/12/2000
Action: Ex Situ Physical/Chemical Treatment (other than P&T, SVE, or Excavation)

Global Id: T0600191578
Action Type: RESPONSE
Date: 09/03/2002
Action: Request for Closure

Global Id: T0600191578
Action Type: RESPONSE
Date: 10/16/2002
Action: Other Report / Document

LUST:
Global Id: T0600191578
Status: Open - Case Begin Date
Status Date: 05/27/1998

Global Id: T0600191578
Status: Completed - Case Closed
Status Date: 10/16/2002

FIRE STATION 12 (Continued) **U001598511**

HIST UST:

Name:	FIRE STATION #4
Address:	1065 143RD AVE
City,State,Zip:	SAN LEANDRO, CA 94578
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000032181
Facility Type:	Other
Other Type:	FIRE STATION
Contact Name:	Not reported
Telephone:	4155773308
Owner Name:	CITY OF SAN LEANDRO
Owner Address:	835 EAST 14TH STREET
Owner City,St,Zip:	SAN LEANDRO, CA 94577
Total Tanks:	0002
Tank Num:	001
Container Num:	STATION 4-
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	STATION 4-
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	None

CERS:

Name:	FIRE STATION 12
Address:	1065 143RD AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	189871
CERS ID:	T0600191578
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

106
ESE
1/4-1/2
0.301 mi.
1591 ft.

Relative:
Higher

Actual:
43 ft.

MAXWELL HOUSE, DIV OF KRAFT FO
100 HALCYON DRIVE
SAN LEANDRO, CA 94578

Database(s): LUST, Alameda County CS, SWEEPS UST, HIST UST, CA FID UST, Cortese, EMI, HIST CORTESE, NPDES, CIWQS, CERS

EDR ID Number: S101624163
EPA ID Number: N/A

LUST:

Name:	GENERAL FOODS
Address:	100 HALCYON
City,State,Zip:	SAN LEANDRO, CA 94578
Lead Agency:	ALAMEDA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100633
Global Id:	T0600100633
Latitude:	37.701827
Longitude:	-122.139183
Status:	Completed - Case Closed
Status Date:	03/21/1995
Case Worker:	Not reported
RB Case Number:	01-0688
Local Agency:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	RO0000652
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0600100633
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600100633
Action Type:	RESPONSE
Date:	02/28/1995
Action:	Other Report / Document
Global Id:	T0600100633
Action Type:	Other
Date:	10/31/1990
Action:	Leak Reported
Global Id:	T0600100633
Action Type:	REMEDIATION
Date:	09/09/9999
Action:	Not reported

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

LUST:
Global Id: T0600100633
Status: Open - Case Begin Date
Status Date: 10/31/1990

Global Id: T0600100633
Status: Completed - Case Closed
Status Date: 03/21/1995

LUST REG 2:
Region: 2
Facility Id: 01-0688
Facility Status: Case Closed
Case Number: 2716
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 11/16/1990
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Name: GENERAL FOODS
Address: 100 HALCYON DR
City,State,Zip: SAN LEANDRO, CA 94578
Status: Case Closed
Record Id: RO0000652
PE: 5602
Facility Status: Case Closed
Latitude: 37.701669834
Longitude: -122.14002696

SWEEPS UST:
Name: MAXWELL HOUSE DIVISION GENERAL
Address: 100 HALCYON DR
City: SAN LEANDRO
Status: Not reported
Comp Number: 8778
Number: Not reported
Board Of Equalization: 44-001065
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-007-008778-000001
Tank Status: Not reported
Capacity: 1
Active Date: Not reported
Tank Use: UNKNOWN

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

STG: PRODUCT
Content: Not reported
Number Of Tanks: 6

Name: MAXWELL HOUSE DIVISION GENERAL
Address: 100 HALCYON DR
City: SAN LEANDRO
Status: Not reported
Comp Number: 8778
Number: Not reported
Board Of Equalization: 44-001065
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-007-008778-000002
Tank Status: Not reported
Capacity: 1
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Name: MAXWELL HOUSE DIVISION GENERAL
Address: 100 HALCYON DR
City: SAN LEANDRO
Status: Not reported
Comp Number: 8778
Number: Not reported
Board Of Equalization: 44-001065
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-007-008778-000003
Tank Status: Not reported
Capacity: 1
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Name: MAXWELL HOUSE DIVISION GENERAL
Address: 100 HALCYON DR
City: SAN LEANDRO
Status: Not reported
Comp Number: 8778
Number: Not reported
Board Of Equalization: 44-001065
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-007-008778-000004
Tank Status: Not reported

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

Capacity: 1
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Name: MAXWELL HOUSE DIVISION GENERAL
Address: 100 HALCYON DR
City: SAN LEANDRO
Status: Not reported
Comp Number: 8778
Number: Not reported
Board Of Equalization: 44-001065
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-007-008778-000005
Tank Status: Not reported
Capacity: 1
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Name: MAXWELL HOUSE DIVISION GENERAL
Address: 100 HALCYON DR
City: SAN LEANDRO
Status: Not reported
Comp Number: 8778
Number: Not reported
Board Of Equalization: 44-001065
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 01-007-008778-000006
Tank Status: Not reported
Capacity: 1
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

HIST UST:
Name: MAXWELL HOUSE DIVISION GENERAL
Address: 100 HALCYON DRIVE
City,State,Zip: SAN LEANDRO, CA 94578
File Number: 00035FE6
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00035FE6.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

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: 01000811
Regulated By: UTNKI
Regulated ID: 00008778
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4156395000
Mail To: Not reported
Mailing Address: 100 HALCYON DR
Mailing Address 2: Not reported
Mailing City,St,Zip: SAN LEANDRO 94578
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

CORTESE:
Name: GENERAL FOODS
Address: 100 HALCYON
City,State,Zip: SAN LEANDRO, CA 94578
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600100633
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

EMI:

Name:	MAXWELL HOUSE, DIV OF GEN FOOD
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	1987
County Code:	1
Air Basin:	SF
Facility ID:	167
Air District Name:	BA
SIC Code:	2095
Air District Name:	BAY AREA 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:	2
NOX - Oxides of Nitrogen Tons/Yr:	9
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	18
Part. Matter 10 Micrometers and Smllr Tons/Yr:	10

Name:	MAXWELL HOUSE, DIV OF GEN FOOD
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	1990
County Code:	1
Air Basin:	SF
Facility ID:	167
Air District Name:	BA
SIC Code:	2095
Air District Name:	BAY AREA 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:	2
NOX - Oxides of Nitrogen Tons/Yr:	10
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	11
Part. Matter 10 Micrometers and Smllr Tons/Yr:	6

Name:	MAXWELL HOUSE, DIV OF KRAFT FO
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	1995
County Code:	1
Air Basin:	SF
Facility ID:	167
Air District Name:	BA
SIC Code:	2095

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	3
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	5
Part. Matter 10 Micrometers and Smllr Tons/Yr:	3

Name:	MAXWELL HOUSE, DIV OF KRAFT FO
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	1996
County Code:	1
Air Basin:	SF
Facility ID:	167
Air District Name:	BA
SIC Code:	2095
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	3
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	5
Part. Matter 10 Micrometers and Smllr Tons/Yr:	3

Name:	MAXWELL HOUSE, DIV OF KRAFT FO
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	1997
County Code:	1
Air Basin:	SF
Facility ID:	167
Air District Name:	BA
SIC Code:	2095
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	3
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	7
Part. Matter 10 Micrometers and Smllr Tons/Yr:	3

Name:	MAXWELL HOUSE, DIV OF KRAFT FO
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	1998
County Code:	1
Air Basin:	SF

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

Facility ID:	167
Air District Name:	BA
SIC Code:	2095
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	8
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	8
Part. Matter 10 Micrometers and Smllr Tons/Yr:	4

Name:	MAXWELL HOUSE, DIV OF KRAFT FO
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	1999
County Code:	1
Air Basin:	SF
Facility ID:	167
Air District Name:	BA
SIC Code:	2095
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	4
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	8
Part. Matter 10 Micrometers and Smllr Tons/Yr:	5

Name:	MAXWELL HOUSE, DIV OF KRAFT FO
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	2000
County Code:	1
Air Basin:	SF
Facility ID:	167
Air District Name:	BA
SIC Code:	2095
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	4
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	8
Part. Matter 10 Micrometers and Smllr Tons/Yr:	5

Name:	MAXWELL HOUSE, DIV OF KRAFT FO
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

Year:	2001
County Code:	1
Air Basin:	SF
Facility ID:	167
Air District Name:	BA
SIC Code:	2095
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	3
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	19
Part. Matter 10 Micrometers and Smllr Tons/Yr:	12

Name:	MAXWELL HOUSE, DIV OF KRAFT FO
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	2002
County Code:	1
Air Basin:	SF
Facility ID:	167
Air District Name:	BA
SIC Code:	2095
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	3
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	20
Part. Matter 10 Micrometers and Smllr Tons/Yr:	12

Name:	MAXWELL HOUSE, DIV OF KRAFT FO
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	2003
County Code:	1
Air Basin:	SF
Facility ID:	167
Air District Name:	BA
SIC Code:	2095
Air District Name:	BAY AREA 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:	1
NOX - Oxides of Nitrogen Tons/Yr:	3
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	20
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

Name:	MAXWELL HOUSE, DIV OF KRAFT FO
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	2004
County Code:	1
Air Basin:	SF
Facility ID:	167
Air District Name:	BA
SIC Code:	2095
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.776
Reactive Organic Gases Tons/Yr:	0.543187
Carbon Monoxide Emissions Tons/Yr:	0.761
NOX - Oxides of Nitrogen Tons/Yr:	3.074
SOX - Oxides of Sulphur Tons/Yr:	0.014
Particulate Matter Tons/Yr:	24.346
Part. Matter 10 Micrometers and Smllr Tons/Yr:	15.098268

Name:	MAXWELL HOUSE, DIV OF KRAFT FO
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	2005
County Code:	1
Air Basin:	SF
Facility ID:	167
Air District Name:	BA
SIC Code:	2095
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.642
Reactive Organic Gases Tons/Yr:	.4499951
Carbon Monoxide Emissions Tons/Yr:	.729
NOX - Oxides of Nitrogen Tons/Yr:	2.934
SOX - Oxides of Sulphur Tons/Yr:	.014
Particulate Matter Tons/Yr:	21.889
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13.574648

Name:	MAXWELL HOUSE, DIV OF KRAFT FO
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	2006
County Code:	1
Air Basin:	SF
Facility ID:	167
Air District Name:	BA
SIC Code:	2095
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.703
Reactive Organic Gases Tons/Yr:	.4926097
Carbon Monoxide Emissions Tons/Yr:	.74
NOX - Oxides of Nitrogen Tons/Yr:	2.974
SOX - Oxides of Sulphur Tons/Yr:	.014

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

Particulate Matter Tons/Yr: 21.983
Part. Matter 10 Micrometers and Smllr Tons/Yr: 13.632928

Name: MAXWELL HOUSE, DIV OF KRAFT FO
Address: 100 HALCYON DRIVE
City,State,Zip: SAN LEANDRO, CA 96021
Year: 2007
County Code: 1
Air Basin: SF
Facility ID: 167
Air District Name: BA
SIC Code: 2095
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: .955
Reactive Organic Gases Tons/Yr: .5910202
Carbon Monoxide Emissions Tons/Yr: 1.585
NOX - Oxides of Nitrogen Tons/Yr: 5.985
SOX - Oxides of Sulphur Tons/Yr: .024
Particulate Matter Tons/Yr: 23.88
Part. Matter 10 Micrometers and Smllr Tons/Yr: 14.829328

Name: MAXWELL HOUSE, DIV OF KRAFT FO
Address: 100 HALCYON DRIVE
City,State,Zip: SAN LEANDRO, CA 94578
Year: 2008
County Code: 1
Air Basin: SF
Facility ID: 167
Air District Name: BA
SIC Code: 2095
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1.014
Reactive Organic Gases Tons/Yr: .6369018
Carbon Monoxide Emissions Tons/Yr: 1.492
NOX - Oxides of Nitrogen Tons/Yr: 5.625
SOX - Oxides of Sulphur Tons/Yr: .023
Particulate Matter Tons/Yr: 25.193
Part. Matter 10 Micrometers and Smllr Tons/Yr: 15.641488

Name: MAXWELL HOUSE, DIV OF KRAFT FO
Address: 100 HALCYON DRIVE
City,State,Zip: SAN LEANDRO, CA 94578
Year: 2009
County Code: 1
Air Basin: SF
Facility ID: 167
Air District Name: BA
SIC Code: 2095
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.72399999999999998
Reactive Organic Gases Tons/Yr: 0.4402741

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

Carbon Monoxide Emissions Tons/Yr:	1.8129999999999999
NOX - Oxides of Nitrogen Tons/Yr:	8.6750000000000007
SOX - Oxides of Sulphur Tons/Yr:	2.5000000000000001E-2
Particulate Matter Tons/Yr:	26.112607271377101
Part. Matter 10 Micrometers and Smllr Tons/Yr:	16.2118

Name:	MAXWELL HOUSE, DIV OF KRAFT FO
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	2010
County Code:	1
Air Basin:	SF
Facility ID:	167
Air District Name:	BA
SIC Code:	2095
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.83299999999999996
Reactive Organic Gases Tons/Yr:	0.4946412
Carbon Monoxide Emissions Tons/Yr:	2.2949999999999999
NOX - Oxides of Nitrogen Tons/Yr:	11.94
SOX - Oxides of Sulphur Tons/Yr:	0.024
Particulate Matter Tons/Yr:	40.959233756945899
Part. Matter 10 Micrometers and Smllr Tons/Yr:	25.42314

Name:	MAXWELL HOUSE, DIV OF KRAFT FO
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	2011
County Code:	1
Air Basin:	SF
Facility ID:	167
Air District Name:	BA
SIC Code:	2095
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7.037
Reactive Organic Gases Tons/Yr:	4.8564754
Carbon Monoxide Emissions Tons/Yr:	34.825
NOX - Oxides of Nitrogen Tons/Yr:	15.186
SOX - Oxides of Sulphur Tons/Yr:	0.861
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	KRAFT FOODS GROUP, INC
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	2012
County Code:	1
Air Basin:	SF
Facility ID:	167
Air District Name:	BA
SIC Code:	2095
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3.982
Reactive Organic Gases Tons/Yr:	2.6923131
Carbon Monoxide Emissions Tons/Yr:	16.263
NOX - Oxides of Nitrogen Tons/Yr:	21.659
SOX - Oxides of Sulphur Tons/Yr:	1.03
Particulate Matter Tons/Yr:	17.607383023
Part. Matter 10 Micrometers and Smllr Tons/Yr:	11.005

Name:	KRAFT FOODS GROUP, INC
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	2013
County Code:	1
Air Basin:	SF
Facility ID:	167
Air District Name:	BA
SIC Code:	2095
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3.918
Reactive Organic Gases Tons/Yr:	2.68154
Carbon Monoxide Emissions Tons/Yr:	15.098
NOX - Oxides of Nitrogen Tons/Yr:	20.944
SOX - Oxides of Sulphur Tons/Yr:	1.025
Particulate Matter Tons/Yr:	15.561
Part. Matter 10 Micrometers and Smllr Tons/Yr:	10.978

Name:	KRAFT HEINZ FOODS COMPANY
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	2014
County Code:	1
Air Basin:	SF
Facility ID:	167
Air District Name:	BA
SIC Code:	2095
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4.539363888
Reactive Organic Gases Tons/Yr:	0.003159417066
Carbon Monoxide Emissions Tons/Yr:	17.100773535
NOX - Oxides of Nitrogen Tons/Yr:	22.743305841
SOX - Oxides of Sulphur Tons/Yr:	0.905943668
Particulate Matter Tons/Yr:	14.035803707
Part. Matter 10 Micrometers and Smllr Tons/Yr:	10.032397256

Name:	KRAFT HEINZ FOODS COMPANY
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Year:	2015
County Code:	1
Air Basin:	SF
Facility ID:	167
Air District Name:	BA

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

SIC Code: 2095
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 3.207841419
Reactive Organic Gases Tons/Yr: 3.1890022986
Carbon Monoxide Emissions Tons/Yr: 4.07911971
NOX - Oxides of Nitrogen Tons/Yr: 16.2732382
SOX - Oxides of Sulphur Tons/Yr: 0.625425597
Particulate Matter Tons/Yr: 4.608258697
Part. Matter 10 Micrometers and Smllr Tons/Yr: 3.328623526

Name: KRAFT HEINZ FOODS COMPANY
Address: 100 HALCYON DRIVE
City,State,Zip: SAN LEANDRO, CA 94578
Year: 2016
County Code: 1
Air Basin: SF
Facility ID: 167
Air District Name: BA
SIC Code: 2095
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 3.207841121
Reactive Organic Gases Tons/Yr: 2.2034747726
Carbon Monoxide Emissions Tons/Yr: 4.079119706
NOX - Oxides of Nitrogen Tons/Yr: 16.273237849
SOX - Oxides of Sulphur Tons/Yr: 0.625425532
Particulate Matter Tons/Yr: 4.608258193
Part. Matter 10 Micrometers and Smllr Tons/Yr: 3.328623426

Name: KRAFT HEINZ FOODS COMPANY
Address: 100 HALCYON DRIVE
City,State,Zip: SAN LEANDRO, CA 94578
Year: 2017
County Code: 1
Air Basin: SF
Facility ID: 167
Air District Name: BA
SIC Code: 2095
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 3.207841121
Reactive Organic Gases Tons/Yr: 2.2034747726
Carbon Monoxide Emissions Tons/Yr: 4.079119706
NOX - Oxides of Nitrogen Tons/Yr: 16.273237849
SOX - Oxides of Sulphur Tons/Yr: 0.625425532
Particulate Matter Tons/Yr: 4.608258193
Part. Matter 10 Micrometers and Smllr Tons/Yr: 3.328623426

HIST CORTESE:
edr_fname: GENERAL FOODS
edr_fadd1: 100 HALCYON
City,State,Zip: SAN LEANDRO, CA 94578
Region: CORTESE

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0688

NPDES:

Name:	KRAFT FOODS INC
Address:	100 HALCYON DR
City,State,Zip:	SAN LEANDRO, CA 94578
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 01I001422
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	08/08/2016
Operator Name:	Kraft Foods Inc
Operator Address:	100 Halcyon Dr
Operator City:	San Leandro
Operator State:	California
Operator Zip:	94578

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Terminated
Agency Number:	0
Region:	2
Regulatory Measure ID:	180653
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01I001422
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/27/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	08/03/2016
Discharge Name:	Kraft Foods Inc
Discharge Address:	100 Halcyon Dr
Discharge City:	San Leandro
Discharge State:	California
Discharge Zip:	94578
Received Date:	Not reported
Processed Date:	Not reported

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
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:	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:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	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
Status:	Not reported

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	180653
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 01I001422
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:	08/03/2016
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	03/27/1992
Status:	Terminated
Status Date:	08/08/2016
Place Size:	35
Place Size Unit:	Acres
Contact:	Michael Corbin
Contact Title:	Plant Manager
Contact Phone:	510-639-5000
Contact Phone Ext:	5071
Contact Email:	Michael.Corbin@kraftfoods.com
Operator Name:	Kraft Foods Inc
Operator Address:	100 Halcyon Dr
Operator City:	San Leandro
Operator State:	California
Operator Zip:	94578
Operator Contact:	Matt Straube
Operator Contact Title:	Plant Manager
Operator Contact Phone:	510-639-5000
Operator Contact Phone Ext:	5071
Operator Contact Email:	matthew.straube@kraftfoods.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Texas
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	510-639-5174
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

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Bay
Certifier:	Matt Straube
Certifier Title:	Plant Manager
Certification Date:	06-APR-16
Primary Sic:	2095-Roasted Coffee
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	100 HALCYON DRIVE
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 01C379189
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	06/04/2019
Operator Name:	100 Halcyon Owner LLC
Operator Address:	711 High Street
Operator City:	Des Moines
Operator State:	Iowa
Operator Zip:	50309

NPDES as of 03/2018:

NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	484291
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01C379189

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/15/2017
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	100 Halcyon Owner LLC
Discharge Address:	711 High Street
Discharge City:	Des Moines
Discharge State:	Iowa
Discharge Zip:	50309
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
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:	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:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	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
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	484291
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	2 01C379189
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:	03/08/2017
Processed Date:	03/15/2017
Status:	Active
Status Date:	03/15/2017
Place Size:	31
Place Size Unit:	Acres
Contact:	Thomas Jodry
Contact Title:	Not reported
Contact Phone:	415-772-0123
Contact Phone Ext:	Not reported
Contact Email:	TJodry@trammellcrow.com
Operator Name:	100 Halcyon Owner LLC
Operator Address:	711 High Street
Operator City:	Des Moines
Operator State:	Iowa
Operator Zip:	50309
Operator Contact:	David Graves
Operator Contact Title:	Senior Development Manager
Operator Contact Phone:	515-248-4241
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	graves.david.l@principal.com
Operator Type:	Private Business
Developer:	Trammell Crow Company
Developer Address:	101 California Street 22nd Floor
Developer City:	San Francisco
Developer State:	Iowa
Developer Zip:	94111
Developer Contact:	Thomas Jodry

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

Developer Contact Title:	Not reported
Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commertial Ind:	N
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N
Constype Other Description:	Not reported
Constype Other Ind:	N
Constype Recons Ind:	N
Constype Residential Ind:	N
Constype Transport Ind:	N
Constype Utility Description:	Not reported
Constype Utility Ind:	N
Constype Water Sewer Ind:	N
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Not reported
Certifier:	David Graves
Certifier Title:	Senior Development Manager
Certification Date:	08-MAR-17
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	100 HALCYON DRIVE
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578
Facility Status:	Terminated
NPDES Number:	CAS000002
Region:	2
Agency Number:	0
Regulatory Measure ID:	484291
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	2 01C379189
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/15/2017
Termination Date Of Regulatory Measure:	06/03/2019
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	711 High Street
Discharge Name:	100 Halcyon Owner LLC
Discharge City:	Des Moines
Discharge State:	Iowa
Discharge Zip:	50309
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000002
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	484291
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01C379189
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/15/2017
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	100 Halcyon Owner LLC
Discharge Address:	711 High Street
Discharge City:	Des Moines
Discharge State:	Iowa
Discharge Zip:	50309
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
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:	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:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	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

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	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
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	484291
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	2 01C379189
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:	03/08/2017
Processed Date:	03/15/2017
Status:	Active
Status Date:	03/15/2017
Place Size:	31
Place Size Unit:	Acres
Contact:	Thomas Jodry
Contact Title:	Not reported
Contact Phone:	415-772-0123
Contact Phone Ext:	Not reported
Contact Email:	TJodry@trammellcrow.com
Operator Name:	100 Halcyon Owner LLC
Operator Address:	711 High Street
Operator City:	Des Moines
Operator State:	Iowa
Operator Zip:	50309

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

Operator Contact:	David Graves
Operator Contact Title:	Senior Development Manager
Operator Contact Phone:	515-248-4241
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	graves.david.l@principal.com
Operator Type:	Private Business
Developer:	Trammell Crow Company
Developer Address:	101 California Street 22nd Floor
Developer City:	San Francisco
Developer State:	Iowa
Developer Zip:	94111
Developer Contact:	Thomas Jodry
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commertial Ind:	N
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N
Constype Other Description:	Not reported
Constype Other Ind:	N
Constype Recons Ind:	N
Constype Residential Ind:	N
Constype Transport Ind:	N
Constype Utility Description:	Not reported
Constype Utility Ind:	N
Constype Water Sewer Ind:	N
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Not reported
Certifier:	David Graves
Certifier Title:	Senior Development Manager
Certification Date:	08-MAR-17
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Name:	KRAFT FOODS INC
Address:	100 HALCYON DR
City,State,Zip:	SAN LEANDRO, CA 94578
Agency:	Kraft Foods Inc
Agency Address:	100 Halcyon Dr, San Leandro, CA 94578
Place/Project Type:	Industrial - Roasted Coffee
SIC/NAICS:	2095
Region:	2
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 01I001422
NPDES Number:	CAS000001

MAXWELL HOUSE, DIV OF KRAFT FO (Continued) **S101624163**

Adoption Date:	01/01/1900
Effective Date:	03/27/1992
Termination Date:	08/03/2016
Expiration/Review Date:	01/01/1900
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.70187
Longitude:	-122.14053

CERS:

Name:	GENERAL FOODS
Address:	100 HALCYON
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	248839
CERS ID:	T0600100633
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Name:	KRAFT HEINZ FOODS COMPANY
Address:	100 HALCYON DRIVE
City,State,Zip:	SAN LEANDRO, CA 94578-3800
Site ID:	479630
CERS ID:	110038069005
CERS Description:	US EPA Air Emission Inventory System (EIS)

M107 **MONTGOMERY WARD** **LUST** **U001598441**
West **3000 ALVARADO** **HIST UST** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94577** **HIST CORTESE**
0.329 mi. **CERS**
1737 ft. **Site 1 of 2 in cluster M**

Relative: **Lower**
Actual: **34 ft.**

LUST:

Name:	MONTGOMERY WARD
Address:	3000 ALVARADO
City,State,Zip:	SAN LEANDRO, CA 94577
Lead Agency:	SAN LEANDRO, CITY OF
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100935
Global Id:	T0600100935
Latitude:	37.706535
Longitude:	-122.149308
Status:	Completed - Case Closed
Status Date:	05/11/1995

MONTGOMERY WARD (Continued) **U001598441**

Case Worker: UNK
RB Case Number: 01-1013
Local Agency: SAN LEANDRO, CITY OF
File Location: Not reported
Local Case Number: 01-1013
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0600100935
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0600100935
Contact Type: Local Agency Caseworker
Contact Name: UNK
Organization Name: SAN LEANDRO, CITY OF
Address: Not reported
City: r2 UNKNOWN
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600100935
Action Type: ENFORCEMENT
Date: 05/11/1995
Action: Closure/No Further Action Letter

Global Id: T0600100935
Action Type: Other
Date: 09/08/1986
Action: Leak Discovery

Global Id: T0600100935
Action Type: Other
Date: 09/08/1986
Action: Leak Stopped

Global Id: T0600100935
Action Type: Other
Date: 09/08/1986
Action: Leak Reported

LUST:
Global Id: T0600100935
Status: Open - Case Begin Date
Status Date: 09/08/1986

Global Id: T0600100935
Status: Open - Site Assessment
Status Date: 03/30/1987

MONTGOMERY WARD (Continued) **U001598441**

Global Id: T0600100935
Status: Open - Site Assessment
Status Date: 04/06/1988

Global Id: T0600100935
Status: Completed - Case Closed
Status Date: 05/11/1995

HIST UST:
Name: MONTGOMERY WARD & CO. INC.
Address: 3000 ALVARADO ST
City,State,Zip: SAN LEANDRO, CA 94577
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000065517
Facility Type: Other
Other Type: DISTRIBUTION CENTER
Contact Name: SCOTT MCBRIDE
Telephone: 4155331300
Owner Name: MONTGOMERY WARD AND CO. INC.
Owner Address: ONE MONTGOMERY WARD PLAZA
Owner City,St,Zip: CHICAGO, IL 60671
Total Tanks: 0009

Tank Num: 001
Container Num: #2
Year Installed: 1965
Tank Capacity: 00000550
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Tank Num: 002
Container Num: #3
Year Installed: 1965
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Tank Num: 003
Container Num: #4
Year Installed: 1965
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Tank Num: 004
Container Num: #5
Year Installed: 1974
Tank Capacity: 00009980

MONTGOMERY WARD (Continued) **U001598441**

Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor

Tank Num:	005
Container Num:	#6
Year Installed:	1974
Tank Capacity:	00009980
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor

Tank Num:	006
Container Num:	#7
Year Installed:	1965
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor

Tank Num:	007
Container Num:	#8
Year Installed:	1965
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor

Tank Num:	008
Container Num:	#9
Year Installed:	1965
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor

Tank Num:	009
Container Num:	#10
Year Installed:	1965
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor

HIST CORTESE:

edr_fname:	MONTGOMERY WARD
edr_fadd1:	3000 ALVARADO
City,State,Zip:	SAN LEANDRO, CA
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA

MONTGOMERY WARD (Continued) **U001598441**

Reg Id: 01-1013

CERS:
Name: MONTGOMERY WARD
Address: 3000 ALVARADO
City,State,Zip: SAN LEANDRO, CA 94577
Site ID: 233633
CERS ID: T0600100935
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: UNK - SAN LEANDRO, CITY OF
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: r2 UNKNOWN
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

M108 **MONTGOMERY WARD** **LUST** **S105036288**
West **3000 ALVARADO** **Cortese** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94577**
0.329 mi.
1737 ft. **Site 2 of 2 in cluster M**

Relative:
Lower

Actual:
34 ft.

LUST REG 2:
Region: 2
Facility Id: 01-1013
Facility Status: Case Closed
Case Number: 01-1013
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 3/30/1987
Preliminary Site Assesment Began: 4/6/1988
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CORTESE:
Name: MONTGOMERY WARD

MONTGOMERY WARD (Continued) **S105036288**

Address:	3000 ALVARADO
City,State,Zip:	SAN LEANDRO, CA 94577
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0600100935
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

N109 **ALAMEDA COUNTY INDUSTRIES (SCTO)** **SWF/LF** **S124825352**
WNW **610 ALADDIN AVENUE** **HWTS** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94577**
0.332 mi.
1752 ft. **Site 1 of 2 in cluster N**

Relative:
Higher

Actual:
43 ft.

SWF/LF (SWIS):

Name:	ALAMEDA COUNTY INDUSTRIES (SCTO)
Address:	610 ALADDIN AVENUE
City,State,Zip:	SAN LEANDRO, CA 94577
Region:	STATE
Facility ID:	01-AA-0291
SWIS Number:	01-AA-0291
Point of Contact:	Alyssa Williams
Is Archived:	Yes
Is Closed Illegal Abandoned:	No
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Operational Status:	Clean Closed
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	Not reported
EPA Federal Registry ID:	Not reported
ARB District:	Bay Area
SWRCB Region:	San Francisco Bay
Local Government:	San Leandro
Reporting Agency Legal Name:	County of Alameda
Reporting Agency Department:	Department of Environmental Health
Enforcing Agency Legal Name:	County of Alameda
Enforcing Agency Department:	Department of Environmental Health
Regulation Status:	Notification

Operator:

SWIS Number:	01-AA-0291

ALAMEDA COUNTY INDUSTRIES (SCTO) (Continued) **S124825352**

Site Name:	Alameda County Industries (SCTO)
Site Operational Status:	Clean Closed
Site Type:	Non-Disposal Only
Site Regulatory Status:	Notification
Latitude:	37.70986
Longitude:	-122.15128
Is Archived:	Yes
Operator:	Alameda County Industries
Started On:	3/10/2003
Contact Name:	Not reported
Contact Title:	Not reported
Contact Email:	Not reported
Contact Phone:	(510) 375-7282
Street Address:	Louie Pellegrini, Jr. 610 Aladdin Avenue
Operator City:	San Leandro
Operator State:	CA
Operator Zip:	49577-4302

Waste:

SWIS Number:	01-AA-0291
Site Name:	Alameda County Industries (SCTO)
Activity:	Sealed Containers Transfer Operation
Waste Type:	Construction/demolition
Site Is Archived:	Yes
Site Operational Status:	Clean Closed
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only
Point of Contact:	Alyssa Williams
Activity Is Archived:	Yes
Activity Operational Status:	Clean Closed
Activity Regulatory Status:	Notification
Activity Category:	Transfer/Processing
Activity Classification:	Solid Waste Operation

SWIS Number:	01-AA-0291
Site Name:	Alameda County Industries (SCTO)
Activity:	Sealed Containers Transfer Operation
Waste Type:	Food Wastes
Site Is Archived:	Yes
Site Operational Status:	Clean Closed
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only
Point of Contact:	Alyssa Williams
Activity Is Archived:	Yes
Activity Operational Status:	Clean Closed
Activity Regulatory Status:	Notification
Activity Category:	Transfer/Processing
Activity Classification:	Solid Waste Operation

SWIS Number:	01-AA-0291
Site Name:	Alameda County Industries (SCTO)
Activity:	Sealed Containers Transfer Operation
Waste Type:	Green Materials
Site Is Archived:	Yes
Site Operational Status:	Clean Closed
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only

ALAMEDA COUNTY INDUSTRIES (SCTO) (Continued) **S124825352**

Point of Contact:	Alyssa Williams
Activity Is Archived:	Yes
Activity Operational Status:	Clean Closed
Activity Regulatory Status:	Notification
Activity Category:	Transfer/Processing
Activity Classification:	Solid Waste Operation
SWIS Number:	01-AA-0291
Site Name:	Alameda County Industries (SCTO)
Activity:	Sealed Containers Transfer Operation
Waste Type:	Inert
Site Is Archived:	Yes
Site Operational Status:	Clean Closed
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only
Point of Contact:	Alyssa Williams
Activity Is Archived:	Yes
Activity Operational Status:	Clean Closed
Activity Regulatory Status:	Notification
Activity Category:	Transfer/Processing
Activity Classification:	Solid Waste Operation
SWIS Number:	01-AA-0291
Site Name:	Alameda County Industries (SCTO)
Activity:	Sealed Containers Transfer Operation
Waste Type:	Mixed municipal
Site Is Archived:	Yes
Site Operational Status:	Clean Closed
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only
Point of Contact:	Alyssa Williams
Activity Is Archived:	Yes
Activity Operational Status:	Clean Closed
Activity Regulatory Status:	Notification
Activity Category:	Transfer/Processing
Activity Classification:	Solid Waste Operation

HWTS:

Name:	SAN LEANDRO DISPOSAL
Address:	610 ALADDIN AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945770000
EPA ID:	CAL000212663
Inactive Date:	11/15/2000
Create Date:	06/30/2000
Last Act Date:	12/26/2000
Mailing Name:	Not reported
Mailing Address:	610 ALADDIN AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN LEANDRO, CA 945770000
Owner Name:	SAN LEANDRO DISPOSAL
Owner Address:	610 ALADDIN AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	SAN LEANDRO, CA 945770000
Contact Name:	RICKY MALVEAUX
Contact Address:	INACT PER FAX OWNERSHIP CHANGE-BP

ALAMEDA COUNTY INDUSTRIES (SCTO) (Continued) **S124825352**

Contact Address 2: Not reported
City,State,Zip: SAN LEANDRO, CA 945770000

N110 **ALAMEDA COUNTY INDUSTRIES** **SWF/LF** **S108197038**
WNW **610 ALADDIN AVE** **HAULERS** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94577** **CERS HAZ WASTE**
0.332 mi. **NPDES**
1752 ft. **Site 2 of 2 in cluster N** **CIWQS**
CERS

Relative:
Higher

Actual:
43 ft.

SWF/LF (SWIS):

Name:	ALAMEDA CO INDUSTRIES DIRECT TRANS. FAC.
Address:	610 ALADDIN AVENUE
City,State,Zip:	SAN LEANDRO, CA 94577
Region:	STATE
Facility ID:	01-AA-0290
SWIS Number:	01-AA-0290
Point of Contact:	Alyssa Williams
Is Archived:	No
Is Closed Illegal Abandoned:	No
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Operational Status:	Active
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	Not reported
EPA Federal Registry ID:	Not reported
ARB District:	Bay Area
SWRCB Region:	San Francisco Bay
Local Government:	San Leandro
Reporting Agency Legal Name:	County of Alameda
Reporting Agency Department:	Department of Environmental Health
Enforcing Agency Legal Name:	County of Alameda
Enforcing Agency Department:	Department of Environmental Health
Regulation Status:	Permitted

Activity:

SWIS Number:	01-AA-0290
Site Name:	Alameda Co Industries Direct Trans. Fac.
Activity:	Large Volume Transfer/Processing Facility
Activity Is Archived:	No
Category:	Transfer/Processing
Activity Classification:	Solid Waste Facility
WDR Number:	Not reported
WDR Landfill Class:	Not reported
Cease Operation:	Not reported
Cease Operation Type:	Not reported
Inspection Frequency:	Monthly
Throughput:	412
Throughput Units:	Tons per day
Remaining Capacity:	Not reported
Remaining Capacity Date:	Not reported
Capacity:	802
Capacity Units:	Tons per day
Total Acreage:	2.2
Disposal Acreage:	Not reported
Permitted Elevation:	Not reported
Permitted Elevation Type:	Not reported

ALAMEDA COUNTY INDUSTRIES (Continued) **S108197038**

Permitted Depth:	Not reported
Permitted Depth Type:	Not reported
Point of Contact:	Alyssa Williams
Site Operational Status:	Active
Site Regulatory Status:	Permitted
Site Is Archived:	No
Is Closed Illegal Abandoned:	No
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	Not reported
EPA Federal Registry ID:	Not reported
County:	Alameda
ARB District:	Bay Area
SWRCB Region:	San Francisco Bay
Local Government:	San Leandro
Street Address:	610 Aladdin Avenue
City:	San Leandro
State:	CA
ZIP Code:	94577
Reporting Agency Legal Name:	County of Alameda
Reporting Agency Department:	Department of Environmental Health
Enforcing Agency Legal Name:	County of Alameda
Enforcing Agency Department:	Department of Environmental Health

Operator:

SWIS Number:	01-AA-0290
Site Name:	Alameda Co Industries Direct Trans. Fac.
Site Operational Status:	Active
Site Type:	Non-Disposal Only
Site Regulatory Status:	Permitted
Latitude:	37.7097
Longitude:	-122.15127
Is Archived:	No
Operator:	Alameda County Industries
Started On:	9/6/2001
Contact Name:	Not reported
Contact Title:	Not reported
Contact Email:	Not reported
Contact Phone:	(510) 357-7282
Street Address:	610 Aladdin Avenue
Operator City:	San Leandro
Operator State:	CA
Operator Zip:	94577

Owner:

SWIS Number:	01-AA-0290
Owner:	Alameda County Industries
Owner Address:	610 Aladdin Ave
Owner City:	San Leandro
Owner State:	CA
Owner Zip:	94577
Site Name:	Alameda Co Industries Direct Trans. Fac.
Site Operational Status:	Active
Site Type:	Non-Disposal Only

ALAMEDA COUNTY INDUSTRIES (Continued) **S108197038**

Site Regulatory Status:	Permitted
Latitude:	37.7097
Longitude:	-122.15127
Is Archived:	No
Started On:	9/6/2001
Contact Name:	Not reported
Contact Title:	Not reported
Contact Email:	Not reported
Contact Phone:	(510) 357-7282

Waste:

SWIS Number:	01-AA-0290
Site Name:	Alameda Co Industries Direct Trans. Fac.
Activity:	Large Volume Transfer/Processing Facility
Waste Type:	Construction/demolition
Site Is Archived:	No
Site Operational Status:	Active
Site Regulatory Status:	Permitted
Site Type:	Non-Disposal Only
Point of Contact:	Alyssa Williams
Activity Is Archived:	No
Activity Operational Status:	Active
Activity Regulatory Status:	Permitted
Activity Category:	Transfer/Processing
Activity Classification:	Solid Waste Facility

SWIS Number:	01-AA-0290
Site Name:	Alameda Co Industries Direct Trans. Fac.
Activity:	Large Volume Transfer/Processing Facility
Waste Type:	Mixed municipal
Site Is Archived:	No
Site Operational Status:	Active
Site Regulatory Status:	Permitted
Site Type:	Non-Disposal Only
Point of Contact:	Alyssa Williams
Activity Is Archived:	No
Activity Operational Status:	Active
Activity Regulatory Status:	Permitted
Activity Category:	Transfer/Processing
Activity Classification:	Solid Waste Facility

HAULERS:

Name:	ALAMEDA COUNTY INDUSTRIES, INC.
Address:	610 ALADDIN AVE
City,State,Zip:	SAN LEANDRO, CA 94577-4302
Facility ID:	1299348
Facility Phone:	(510) 357-7282
Business Email Address:	strousdale@alamedacountyindustries.com
Contact Person:	Sarah Trousdale
Mailing Address:	610 Aladdin Ave
Mailing City:	San Leandro
Mailing State:	CA
Mailing Zip:	94577-4302
Mailing County:	Not reported
Mailing Phone:	(510) 357-7282

ALAMEDA COUNTY INDUSTRIES (Continued) **S108197038**

Current Status:	Active Business
Current Hauler Status:	Hauler - Registered
Accepting Tires From Public:	No
Regulatory Status Last Changed:	12/16/2003
Business Types:	Trucking/Bus Fleet; Other: REFUSE HAULER

CERS HAZ WASTE:

Name:	ALAMEDA COUNTY INDUSTRIES
Address:	610 ALADDIN AVE
City,State,Zip:	SAN LEANDRO, CA 94577
Site ID:	3876
CERS ID:	10123348
CERS Description:	Hazardous Waste Generator

NPDES:

Name:	ALAMEDA COUNTY INDUSTRIES
Address:	610 ALADDIN AVE
City,State,Zip:	SAN LEANDRO, CA 94577
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 01I015900
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	06/29/2000
Operator Name:	Alameda Cnty Industries
Operator Address:	610 Aladdin Ave
Operator City:	San Leandro
Operator State:	California
Operator Zip:	94577

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	181149
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01I015900
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported

ALAMEDA COUNTY INDUSTRIES (Continued) **S108197038**

Effective Date Of Regulatory Measure:	06/29/2000
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Alameda Cnty Industries
Discharge Address:	610 Aladdin Ave
Discharge City:	San Leandro
Discharge State:	California
Discharge Zip:	94577
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
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:	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:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported

ALAMEDA COUNTY INDUSTRIES (Continued) **S108197038**

Receiving Water Name:	Not reported
Certifier:	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
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	181149
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 01I015900
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:	05/09/2008
Processed Date:	06/29/2000
Status:	Active
Status Date:	06/29/2000
Place Size:	2.83
Place Size Unit:	Acres
Contact:	Jillian Hogan
Contact Title:	Environmental Compliance Manager
Contact Phone:	510-357-7282
Contact Phone Ext:	Not reported
Contact Email:	jhogan@alamedacountyindustries.com
Operator Name:	Alameda Cnty Industries
Operator Address:	610 Aladdin Ave
Operator City:	San Leandro
Operator State:	California
Operator Zip:	94577
Operator Contact:	Jillian Hogan
Operator Contact Title:	Environmental Compliance Manager
Operator Contact Phone:	510-346-8148
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	jhogan@alamedacountyindustries.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported

ALAMEDA COUNTY INDUSTRIES (Continued) **S108197038**

Emergency Phone:	510-346-8148
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Francisco Bay
Certifier:	Louie Pellegrini
Certifier Title:	President
Certification Date:	15-APR-15
Primary Sic:	5093-Scrap and Waste Materials
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	ALAMEDA COUNTY INDUSTRIES
Address:	610 ALADDIN AVE
City,State,Zip:	SAN LEANDRO, CA 94577
Facility Status:	Active
NPDES Number:	CAS000001
Region:	2
Agency Number:	0
Regulatory Measure ID:	181149
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	2 01I015900
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/29/2000
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	610 Aladdin Ave
Discharge Name:	Alameda Cnty Industries
Discharge City:	San Leandro
Discharge State:	California
Discharge Zip:	94577
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

ALAMEDA COUNTY INDUSTRIES (Continued) **S108197038**

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	181149
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01I015900
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/29/2000
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Alameda Cnty Industries
Discharge Address:	610 Aladdin Ave
Discharge City:	San Leandro
Discharge State:	California
Discharge Zip:	94577
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
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:	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:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	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

ALAMEDA COUNTY INDUSTRIES (Continued) **S108197038**

Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	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
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	181149
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 01I015900
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:	05/09/2008
Processed Date:	06/29/2000
Status:	Active
Status Date:	06/29/2000
Place Size:	2.83
Place Size Unit:	Acres
Contact:	Jillian Hogan
Contact Title:	Environmental Compliance Manager
Contact Phone:	510-357-7282
Contact Phone Ext:	Not reported
Contact Email:	jhogan@alamedacountyindustries.com
Operator Name:	Alameda Cnty Industries
Operator Address:	610 Aladdin Ave
Operator City:	San Leandro
Operator State:	California
Operator Zip:	94577
Operator Contact:	Jillian Hogan
Operator Contact Title:	Environmental Compliance Manager

ALAMEDA COUNTY INDUSTRIES (Continued) **S108197038**

Operator Contact Phone:	510-346-8148
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	jhogan@alamedacountyindustries.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	510-346-8148
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Francisco Bay
Certifier:	Louie Pellegrini
Certifier Title:	President
Certification Date:	15-APR-15
Primary Sic:	5093-Scrap and Waste Materials
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Name:	ALAMEDA COUNTY INDUSTRIES
Address:	610 ALADDIN AVE
City,State,Zip:	SAN LEANDRO, CA 94577
Agency:	Alameda Cnty Industries
Agency Address:	610 Aladdin Ave, San Leandro, CA 94577
Place/Project Type:	Industrial - Scrap and Waste Materials
SIC/NAICS:	5093
Region:	2
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	2 01I015900
NPDES Number:	CAS000001
Adoption Date:	01/01/1900
Effective Date:	06/29/2000

ALAMEDA COUNTY INDUSTRIES (Continued) **S108197038**

Termination Date:	01/01/1900
Expiration/Review Date:	01/01/1900
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	1
Violations within 5 years:	1
Latitude:	37.709754
Longitude:	-122.151359

CERS:

Name:	ALAMEDA CO INDUSTRIES DIRECT TRANS. FAC.
Address:	610 ALADDIN AVENUE
City,State,Zip:	SAN LEANDRO, CA
Site ID:	506558
CERS ID:	01-AA-0290
CERS Description:	Solid Waste and Recycle Sites

Affiliation:

Affiliation Type Desc:	Legal Owner
Entity Name:	Alameda County Industries
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	5103577282

Affiliation Type Desc:	Legal Operator
Entity Name:	Alameda County Industries
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	5103577282

Name:	ALAMEDA COUNTY INDUSTRIES
Address:	610 ALADDIN AVE
City,State,Zip:	SAN LEANDRO, CA 94577
Site ID:	3876
CERS ID:	10123348
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	3876
Site Name:	Alameda County Industries
Violation Date:	07-02-2007
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit the 2006-2007 Annual Report by 7/1/07
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS

ALAMEDA COUNTY INDUSTRIES (Continued) **S108197038**

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-19-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No changes. Their household collected hazardous waste is mostly in the center of the main processing building. Their site generated hazardous waste are mostly kept in the hazardous waste near the southeastern corner of their facility. The shop/maintenance area has the remaining site generated hazardous wastes. Most haz wastes are kept in ASTs, but there is also drained used oil drums. The containers were free of loose hazardous wastes. All containers were labeled and all generation start dates were filled out. They are maintaining hazardous waste area logs. They are keeping hazardous waste related records indefinitely. The facility contact has a spread she that she uses to tract all hazardous waste shipments, TSDF arrivals, and receipt of of paperwork (TSDF signed manifest copies). No violations were observed.
Eval Division:	San Leandro City
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-19-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Their last CERS submittal was on 8/18/16. It did not include an emergency response/contingency plan. The last plan submitted was on 2/23/16. The approved submissions had next reporting due dates of 2/23/17 to remind the business that a full CERS submission including the emergency response/contingency plan will be due by that date. This was also discussed with the facility contact and she acknowledge the requirement for future submissions. Note: her other facility located at 577 Aladdin Ave. San Leandro had an overdue emergency response contingency plan that was noted as a violation. The rest of the plan looked good and the emergency response/contingency plan also looked good. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-07-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Hazardous waste tanks are inspected daily and hazardous waste areas are inspected at least weekly. All hazardous waste labels were OK. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-07-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	The last CERS submission was on 2/25/14. The facility contact was made aware of the annual submission being due on 2/25/15. No violations

ALAMEDA COUNTY INDUSTRIES (Continued) **S108197038**

	were observed.
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-16-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	The hazardous waste areas were neat and wastes were properly segregated. All hazardous waste containers were properly marked, secure, and in good condition. They are keeping manifests indefinitely. The area was cleaned and they are looking at the areas more than weekly. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-16-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Their last CERS submittal was on 3/20/15; their next annual submittal is due by 3/20/16. The facility contact is fully aware of CERS and submittal requirements. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-06-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Household hazardous wastes are now kept outdoors in a separate hazardous material containment shed. There is another shed next to it that the site's hazardous wastes are kept in. Same storage practices in the two sheds. Wastes were all properly labeled and contained. They are keeping hazardous waste records indefinitely. They are still tracking all hazardous waste shipments to ensure they get all their copies and that disposal is complete. They now about the reporting requirements if a manifest copy is late. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-06-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Their last full HMBP CERS submittal was on 6/29/17. It is fully developed, complete, and accurate. The facility contact understands that they must make an annual submittal including all major elements. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS

ALAMEDA COUNTY INDUSTRIES (Continued) **S108197038**

Enforcement Action:

Site ID:	3876
Site Name:	Alameda County Industries
Site Address:	610 ALADDIN AVE
Site City:	SAN LEANDRO
Site Zip:	94577
Enf Action Date:	08-06-2007
Enf Action Type:	Notice of Non-Compliance for Non-Filers
Enf Action Description:	Notice of Non-Compliance for Non-Filers
Enf Action Notes:	N/A
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS

Coordinates:

Site ID:	3876
Facility Name:	Alameda County Industries
Env Int Type Code:	SMSWIND
Program ID:	204845
Coord Name:	Not reported
Ref Point Type Desc:	Unknown
Latitude:	37.709754
Longitude:	-122.151359

Affiliation:

Affiliation Type Desc:	Identification Signer
Entity Name:	Sarah R Trousdale
Entity Title:	Environmental Compliance Analyst
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Louie Pellegrini, Jr.
Entity Title:	Not reported
Affiliation Address:	610 Aladdin Avenue
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94577
Affiliation Phone:	(510) 346-8139

Affiliation Type Desc:	Owner/Operator
Entity Name:	Alameda Cnty Industries
Entity Title:	Operator
Affiliation Address:	610 Aladdin Ave
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer

ALAMEDA COUNTY INDUSTRIES (Continued) **S108197038**

Entity Name:	Sarah R Trousdale
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	Alameda County Industries
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Sarah Trousdale
Entity Title:	Not reported
Affiliation Address:	610 Aladdin Avenue
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	610 Aladdin Avenue
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Alameda County Industries
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 357-7282

Affiliation Type Desc:	CUPA District
Entity Name:	San Leandro City
Entity Title:	Not reported
Affiliation Address:	835 East 14th Street
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577

ALAMEDA COUNTY INDUSTRIES (Continued) **S108197038**

Affiliation Phone: (510) 577-3401

Name: ALAMEDA COUNTY INDUSTRIES
Address: 610 ALADDIN AVE
City,State,Zip: SAN LEANDRO, CA 94577
Site ID: 3876
CERS ID: 204845
CERS Description: Industrial Facility Storm Water

Violations:
Site ID: 3876
Site Name: Alameda County Industries
Violation Date: 07-02-2007
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit the 2006-2007 Annual Report by 7/1/07
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-19-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No changes. Their household collected hazardous waste is mostly in the center of the main processing building. Their site generated hazardous waste are mostly kept in the hazardous waste near the southeastern corner of their facility. The shop/maintenance area has the remaining site generated hazardous wastes. Most haz wastes are kept in ASTs, but there is also drained used oil drums. The containers were free of loose hazardous wastes. All containers were labeled and all generation start dates were filled out. They are maintaining hazardous waste area logs. They are keeping hazardous waste related records indefinitely. The facility contact has a spread she that she uses to tract all hazardous waste shipments, TSDF arrivals, and receipt of of paperwork (TSDF signed manifest copies). No violations were observed.
Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-19-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Their last CERS submittal was on 8/18/16. It did not include an emergency response/contingency plan. The last plan submitted was on 2/23/16. The approved submissions had next reporting due dates of 2/23/17 to remind the business that a full CERS submission including the emergency response/contingency plan will be due by that date. This was also discussed with the facility contact and she acknowledge the requirement for future submissions. Note: her other facility located at 577 Aladdin Ave. San Leandro had an overdue emergency response contingency plan that was noted as a violation. The rest of the plan looked good and the emergency response/contingency plan also looked good. No violations were observed.

ALAMEDA COUNTY INDUSTRIES (Continued) **S108197038**

Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-07-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Hazardous waste tanks are inspected daily and hazardous waste areas are inspected at least weekly. All hazardous waste labels were OK. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-07-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	The last CERS submission was on 2/25/14. The facility contact was made aware of the annual submission being due on 2/25/15. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-16-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	The hazardous waste areas were neat and wastes were properly segregated. All hazardous waste containers were properly marked, secure, and in good condition. They are keeping manifests indefinitely. The area was cleaned and they are looking at the areas more than weekly. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-16-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Their last CERS submittal was on 3/20/15; their next annual submittal is due by 3/20/16. The facility contact is fully aware of CERS and submittal requirements. No violations were observed.
Eval Division:	San Leandro City
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-06-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Household hazardous wastes are now kept outdoors in a separate hazardous material containment shed. There is another shed next to it that the site's hazardous wastes are kept in. Same storage practices

ALAMEDA COUNTY INDUSTRIES (Continued) **S108197038**

in the two sheds. Wastes were all properly labeled and contained. They are keeping hazardous waste records indefinitely. They are still tracking all hazardous waste shipments to ensure they get all their copies and that disposal is complete. They now about the reporting requirements if a manifest copy is late. No violations were observed.

Eval Division: San Leandro City
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-06-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Their last full HMBP CERS submittal was on 6/29/17. It is fully developed, complete, and accurate. The facility contact understands that they must make an annual submittal including all major elements. No violations were observed.
Eval Division: San Leandro City
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 3876
Site Name: Alameda County Industries
Site Address: 610 ALADDIN AVE
Site City: SAN LEANDRO
Site Zip: 94577
Enf Action Date: 08-06-2007
Enf Action Type: Notice of Non-Compliance for Non-Filers
Enf Action Description: Notice of Non-Compliance for Non-Filers
Enf Action Notes: N/A
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS

Coordinates:
Site ID: 3876
Facility Name: Alameda County Industries
Env Int Type Code: SMSWIND
Program ID: 204845
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.709754
Longitude: -122.151359

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Sarah R Trousdale
Entity Title: Environmental Compliance Analyst
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

ALAMEDA COUNTY INDUSTRIES (Continued) **S108197038**

Affiliation Type Desc:	Legal Owner
Entity Name:	Louie Pellegrini, Jr.
Entity Title:	Not reported
Affiliation Address:	610 Aladdin Avenue
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94577
Affiliation Phone:	(510) 346-8139

Affiliation Type Desc:	Owner/Operator
Entity Name:	Alameda Cnty Industries
Entity Title:	Operator
Affiliation Address:	610 Aladdin Ave
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Sarah R Trousdale
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	Alameda County Industries
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Sarah Trousdale
Entity Title:	Not reported
Affiliation Address:	610 Aladdin Avenue
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	610 Aladdin Avenue
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported

ALAMEDA COUNTY INDUSTRIES (Continued) **S108197038**

Affiliation Zip:	94577
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Alameda County Industries
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 357-7282
Affiliation Type Desc:	CUPA District
Entity Name:	San Leandro City
Entity Title:	Not reported
Affiliation Address:	835 East 14th Street
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	(510) 577-3401

O111 **ED CHOVANES FORD** **Alameda County CS** **S108744935**
NNE **13889 E 14TH ST** **HIST UST** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94578**
0.354 mi.
1868 ft. **Site 1 of 2 in cluster O**

Relative:
Higher

Actual:
52 ft.

Alameda County CS:

Name:	ED CHOVANES FORD
Address:	13889 E 14TH ST
City,State,Zip:	SAN LEANDRO, CA 94578
Status:	Case Closed
Record Id:	RO0000948
PE:	5602
Facility Status:	Case Closed
Latitude:	37.714051934
Longitude:	-122.14129755

HIST UST:

Name:	ED CHOVANES FORD INC
Address:	13889 EAST 14TH ST
City,State,Zip:	SAN LEANDRO, CA 94578
File Number:	00035F53
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00035F53.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

ED CHOVANES FORD (Continued) **S108744935**

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:

O112 **ED CHOUANES FORD, INC** **RCRA-SQG 1000171068**
NNE **13889 E 14TH ST** **LUST CAD981382260**
1/4-1/2 **SAN LEANDRO, CA 94578** **HIST UST**
0.354 mi. **FINDS**
1868 ft. **Site 2 of 2 in cluster O** **ECHO**
Cortese
Relative: **HIST CORTESE**
Higher **CERS**

Actual:
52 ft.

RCRA-SQG:

Date Form Received by Agency:		1986-03-05 00:00:00.0
Handler Name:	ED CHOUANES FORD, INC	
Handler Address:		13889 E 14TH ST
Handler City,State,Zip:		SAN LEANDRO, CA 94578
EPA ID:		CAD981382260
Contact Name:		ENVIRONMENTAL MANAGER
Contact Address:		13889 E FOURTEEN ST
Contact City,State,Zip:		SAN LEANDRO, CA 94578
Contact Telephone:		415-352-2000
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Other
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		CA
State District:		2
Mailing Address:		13889 E 14TH ST
Mailing City,State,Zip:		SAN LEANDRO, CA 94578
Owner Name:		ED CHOUANES
Owner Type:		Private
Operator Name:		NOT REQUIRED
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No

ED CHOUANES FORD, INC (Continued) **1000171068**

Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2002-06-27 03:24:21.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ED CHOUANES
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported

ED CHOUANES FORD, INC (Continued) **1000171068**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NOT REQUIRED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 1986-03-05 00:00:00.0
Handler Name: ED CHOUANES FORD, INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 44111
NAICS Description: NEW CAR DEALERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

LUST:
Name: ED CHOVANES FORD
Address: 13889 14TH
City,State,Zip: SAN LEANDRO, CA 94578
Lead Agency: ALAMEDA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100499
Global Id: T0600100499
Latitude: 37.71343
Longitude: -122.141996
Status: Completed - Case Closed
Status Date: 12/12/1995
Case Worker: Not reported
RB Case Number: 01-0546
Local Agency: Not reported

ED CHOUANES FORD, INC (Continued) **1000171068**

File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: RO0000948
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

LUST:
Global Id: T0600100499
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600100499
Action Type: Other
Date: 05/13/1986
Action: Leak Reported

Global Id: T0600100499
Action Type: REMEDIATION
Date: 04/09/1991
Action: Excavation

Global Id: T0600100499
Action Type: RESPONSE
Date: 12/12/1995
Action: Final Remedial Action Report / Corrective Action Report

LUST:
Global Id: T0600100499
Status: Open - Case Begin Date
Status Date: 05/13/1986

Global Id: T0600100499
Status: Completed - Case Closed
Status Date: 12/12/1995

LUST REG 2:
Region: 2
Facility Id: 01-0546
Facility Status: Case Closed
Case Number: 2449
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 12/10/1991
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported

ED CHOUANES FORD, INC (Continued) **1000171068**

Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST UST:

Name:	ED CHOVANES FORD INC.
Address:	13889 E 14TH ST
City,State,Zip:	SAN LEANDRO, CA 94578
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000002598
Facility Type:	Other
Other Type:	AUTO DEALER
Contact Name:	ED CHOVANES
Telephone:	4153522000
Owner Name:	ED CHOVANES FORD, INC.
Owner Address:	13889 EAST 14TH STREET
Owner City,St,Zip:	SAN LEANDRO, CA 94578
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000350
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Visual

FINDS:
Registry ID: 110001198686

Click Here:

Environmental Interest/Information System:
AIR EMISSIONS CLASSIFICATION UNKNOWN
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

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000171068
Registry ID:	110001198686
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110001198686
Name:	ED CHOVANES FORD INC
Address:	13889 E 14TH ST
City,State,Zip:	SAN LEANDRO, CA 94578

CORTESE:
Name: ED CHOVANES FORD

ED CHOUANES FORD, INC (Continued) **1000171068**

Address:	13889 14TH
City,State,Zip:	SAN LEANDRO, CA 94578
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0600100499
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	ED CHOVANES FORD
edr_fadd1:	13889 14TH
City,State,Zip:	SAN LEANDRO, CA 94578
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0546

CERS:

Name:	ED CHOVANES FORD
Address:	13889 14TH
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	217702
CERS ID:	T0600100499
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

113
NNW
1/4-1/2
0.362 mi.
1909 ft.

STAEFA CONTROL SYSTEM
2481 WASHINGTON AVE
SAN LEANDRO, CA 94577

SEMS-ARCHIVE

1003879360
CAD982400228

Relative:
Higher

Actual:
53 ft.

SEMS Archive:

Site ID:	0903268
EPA ID:	CAD982400228
Name:	STAEFA CONTROL SYSTEM
Address:	2481 WASHINGTON AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 94577
Cong District:	09
FIPS Code:	06001
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	09
Site ID:	0903268
EPA ID:	CAD982400228
Site Name:	STAEFA CONTROL SYSTEM
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1989-10-06 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	09
Site ID:	0903268
EPA ID:	CAD982400228
Site Name:	STAEFA CONTROL SYSTEM
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	Not reported
Finish Date:	1989-10-06 04:00:00
Qual:	N
Current Action Lead:	St Perf

Region:	09
Site ID:	0903268
EPA ID:	CAD982400228
Site Name:	STAEFA CONTROL SYSTEM
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1

STAEFA CONTROL SYSTEM (Continued) **1003879360**

Start Date:	1988-06-01 04:00:00
Finish Date:	1988-06-01 04:00:00
Qual:	Not reported
Current Action Lead:	St Perf

114
SSE
1/4-1/2
0.376 mi.
1984 ft.

VUKOVIC DEVELOPMENT SITE
0 WASHINGTON AVE & HALCYON DR
SAN LEANDRO, CA 94578

CPS-SLIC **S108246103**
Alameda County CS **N/A**
CERS

Relative:
Higher

Actual:
41 ft.

CPS-SLIC:

Name:	VUKOVIC DEVELOPMENT SITE
Address:	0 WASHINGTON AVE & HALCYON DR
City,State,Zip:	SAN LEANDRO, CA 94578
Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	08/13/1990
Global Id:	T06019760971
Lead Agency:	ALAMEDA COUNTY LOP
Lead Agency Case Number:	RO0002827
Latitude:	37.7017845988073
Longitude:	-122.141103744507
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	NA
File Location:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected:	Under Investigation
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Alameda County CS:

Name:	VUKOVIC DEVELOPMENT SITE
Address:	0 WASHINGTON AVE & HALCYON DR
City,State,Zip:	SAN LEANDRO, CA 94578
Status:	Case Closed
Record Id:	RO0002827
PE:	5502
Facility Status:	Case Closed
Latitude:	37.701820597
Longitude:	-122.14113867

CERS:

Name:	VUKOVIC DEVELOPMENT SITE
Address:	0 WASHINGTON AVE & HALCYON DR
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	225428
CERS ID:	T06019760971
CERS Description:	Cleanup Program Site

115 West 1/4-1/2 0.386 mi. 2038 ft.

WILLAMETTE INDUSTRIES
2800 ALVARADO
SAN LEANDRO, CA 94577

LUST
Cortese
HIST CORTESE
NPDES
CERS

1002848429
N/A

Relative: Higher

Actual: 39 ft.

LUST:

Name:	WILLAMETTE INDUSTRIES
Address:	2800 ALVARADO
City,State,Zip:	SAN LEANDRO, CA 94577
Lead Agency:	SAN LEANDRO, CITY OF
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101948
Global Id:	T0600101948
Latitude:	37.708396
Longitude:	-122.15127
Status:	Completed - Case Closed
Status Date:	12/16/1997
Case Worker:	UNK
RB Case Number:	01-2122
Local Agency:	SAN LEANDRO, CITY OF
File Location:	Not reported
Local Case Number:	01-2122
Potential Media Affect:	Under Investigation
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0600101948
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0600101948
Contact Type:	Local Agency Caseworker
Contact Name:	UNK
Organization Name:	SAN LEANDRO, CITY OF
Address:	Not reported
City:	r2 UNKNOWN
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600101948
Action Type:	Other
Date:	10/13/1994
Action:	Leak Discovery

Global Id:	T0600101948
Action Type:	Other
Date:	10/13/1994
Action:	Leak Stopped

Global Id:	T0600101948
Action Type:	Other

WILLAMETTE INDUSTRIES (Continued) **1002848429**

Date: 09/07/1995
Action: Leak Reported

LUST:
Global Id: T0600101948
Status: Open - Case Begin Date
Status Date: 10/13/1994

Global Id: T0600101948
Status: Open - Site Assessment
Status Date: 10/06/1995

Global Id: T0600101948
Status: Completed - Case Closed
Status Date: 12/16/1997

LUST REG 2:
Region: 2
Facility Id: 01-2122
Facility Status: Case Closed
Case Number: 01-2122
How Discovered: OM
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 10/6/1995
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CORTESE:
Name: WILLAMETTE INDUSTRIES
Address: 2800 ALVARADO
City,State,Zip: SAN LEANDRO, CA 94577
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600101948
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported

WILLAMETTE INDUSTRIES (Continued) **1002848429**

Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: WILLAMETTE INDUSTRIES
edr_fadd1: 2800 ALVARADO
City,State,Zip: SAN LEANDRO, CA 94577
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-2122

NPDES:
Name: GEORGIA PACIFIC CORRUGATED LLC
Address: 2800 ALVARADO ST
City,State,Zip: SAN LEANDRO, CA 94577
Facility Status: Active
NPDES Number: CAS000001
Region: 2
Agency Number: 0
Regulatory Measure ID: 320732
Place ID: Not reported
Order Number: 97-03-DWQ
WDID: 2 01I020683
Regulatory Measure Type: Enrollee
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 02/21/2007
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: 133 Peachtree Street NE
Discharge Name: Georgia Pacific Corrugated LLC
Discharge City: Atlanta
Discharge State: Georgia
Discharge Zip: 30303
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

NPDES as of 03/2018:
NPDES Number: Not reported
Status: Not reported
Agency Number: Not reported
Region: 2
Regulatory Measure ID: 320732
Order Number: Not reported
Regulatory Measure Type: Industrial
Place ID: Not reported
WDID: 2 01I020683
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported

WILLAMETTE INDUSTRIES (Continued) **1002848429**

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:	05/09/2008
Processed Date:	02/21/2007
Status:	Active
Status Date:	02/21/2007
Place Size:	15.7
Place Size Unit:	Acres
Contact:	John Allard
Contact Title:	EHS Manager
Contact Phone:	510-895-7834
Contact Phone Ext:	Not reported
Contact Email:	jcallard@gapac.com
Operator Name:	Georgia Pacific Corrugated LLC
Operator Address:	15500 Valley View Avenue
Operator City:	La Mirada
Operator State:	California
Operator Zip:	90638
Operator Contact:	John Allard
Operator Contact Title:	EHS Manager
Operator Contact Phone:	510-895-7834
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	jcallard@gapac.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Francisco Bay

WILLAMETTE INDUSTRIES (Continued) **1002848429**

Certifier:	Kevin Mouser
Certifier Title:	Director of Operations
Certification Date:	03-JUN-15
Primary Sic:	2653-Corrugated and Solid Fiber Boxes
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	320732
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01I020683
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/21/2007
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Georgia Pacific Corrugated LLC
Discharge Address:	15500 Valley View Avenue
Discharge City:	La Mirada
Discharge State:	California
Discharge Zip:	90638
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
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:	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:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported

WILLAMETTE INDUSTRIES (Continued) **1002848429**

Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	GEORGIA PACIFIC CORRUGATED LLC
Address:	2800 ALVARADO ST
City,State,Zip:	SAN LEANDRO, CA 94577
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 01I020683
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	02/21/2007
Operator Name:	Georgia Pacific Corrugated LLC
Operator Address:	133 Peachtree Street NE
Operator City:	Atlanta
Operator State:	Georgia
Operator Zip:	30303

WILLAMETTE INDUSTRIES (Continued) **1002848429**

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	320732
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 01I020683
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:	05/09/2008
Processed Date:	02/21/2007
Status:	Active
Status Date:	02/21/2007
Place Size:	15.7
Place Size Unit:	Acres
Contact:	John Allard
Contact Title:	EHS Manager
Contact Phone:	510-895-7834
Contact Phone Ext:	Not reported
Contact Email:	jcallard@gapac.com
Operator Name:	Georgia Pacific Corrugated LLC
Operator Address:	15500 Valley View Avenue
Operator City:	La Mirada
Operator State:	California
Operator Zip:	90638
Operator Contact:	John Allard
Operator Contact Title:	EHS Manager
Operator Contact Phone:	510-895-7834
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	jcallard@gapac.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	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

WILLAMETTE INDUSTRIES (Continued) **1002848429**

Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Francisco Bay
Certifier:	Kevin Mouser
Certifier Title:	Director of Operations
Certification Date:	03-JUN-15
Primary Sic:	2653-Corrugated and Solid Fiber Boxes
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	320732
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01I020683
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/21/2007
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Georgia Pacific Corrugated LLC
Discharge Address:	15500 Valley View Avenue
Discharge City:	La Mirada
Discharge State:	California
Discharge Zip:	90638
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
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:	Not reported
Operator Contact Title:	Not reported

WILLAMETTE INDUSTRIES (Continued) **1002848429**

Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CERS:

Name:	WILLAMETTE INDUSTRIES
Address:	2800 ALVARADO
City,State,Zip:	SAN LEANDRO, CA 94577
Site ID:	245669
CERS ID:	T0600101948
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

WILLAMETTE INDUSTRIES (Continued) **1002848429**

Affiliation Phone: Not reported

Affiliation Type Desc: Local Agency Caseworker
Entity Name: UNK - SAN LEANDRO, CITY OF
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: r2 UNKNOWN
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

P116 **TRANSCON LINES** **Notify 65** **U000056606**
WNW **601 ALADIN AVENUE** **N/A**
1/4-1/2 **SAN LEANDRO, CA 92584**
0.394 mi.
2080 ft. **Site 1 of 3 in cluster P**

Relative:
Higher

Actual:
44 ft.

NOTIFY 65:
Name: TRANSCON LINES
Address: 601 ALADIN AVENUE
City,State,Zip: SAN LEANDRO, CA 92584
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
Global ID: Not reported
Status: Not reported

P117 **TRANSCON LINES** **RESPONSE** **S101630334**
WNW **601 ALADDIN AVE** **ENVIROSTOR** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94577** **LUST**
0.394 mi. **SWEEPS UST**
2080 ft. **Site 2 of 3 in cluster P** **CA FID UST**
Cortese

Relative:
Higher

HIST CORTESE
CERS

Actual:
44 ft.

RESPONSE:
Name: FORMER TRANSCON LINES
Address: 601 ALADDIN AVENUE
City,State,Zip: SAN LEANDRO, CA 94577
Facility ID: 01470004
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 8.6
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Jayantha Randeni
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley

TRANSCON LINES (Continued) **S101630334**

Site Code:	201017
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	18
Senate:	09
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	03/13/2002
Restricted Use:	NO
Funding:	Responsible Party
Latitude:	37.71088
Longitude:	-122.1522
APN:	077A-0650-002-10, 077A-0650-003-12
Past Use:	FUEL - VEHICLE STORAGE/ REFUELING, VEHICLE MAINTENANCE
Potential COC :	Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE
Potential Description:	OTH, SOIL
Alias Name:	077A-0650-002-10
Alias Type:	APN
Alias Name:	077A-0650-003-12
Alias Type:	APN
Alias Name:	110033614630
Alias Type:	EPA (FRS #)
Alias Name:	201017
Alias Type:	Project Code (Site Code)
Alias Name:	01470004
Alias Type:	Envirostor ID Number
Alias Name:	01990002
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	11/07/1997
Comments:	Order issued to the current owners/operators.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	03/13/2002
Comments:	DTSC determined that no further action is needed at the site due to the declining concentrations in groundwater and because all potential sources have been removed from the site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	10/28/1996
Comments:	Underground tanks were removed, soil excavated and stockpiled on site, soil samples collected and analyzed for hydrocarbons and VOCs. The soil pile was areated and used as backfill. Groundwater sampling conducted in 4 wells. TCE and PCE were detected in groundwater up to 92 ug/l and 2200 ug/l respectively.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	05/21/1999

TRANSCON LINES (Continued) **S101630334**

Comments: VOCs were sampled in 4 on site wells and TCE was detected from 396 ug/l to 548 ug/l in the wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 05/28/1992
Comments: Phase I investigation identified the possible presence of hazardous materials at site and additional work was recommended.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 06/25/1993
Comments: The existing diesel underground storage tanks may have leaked. Approximately 3,000 cubic yards of diesel affected soil are present at the site. Groundwater at the site is contaminated with trichloroethylene which may be migrating from upgradient sites.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/01/1989
Comments: Soil and groundwater investigation conducted which found subsurface diesel and waste oil contamination at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/13/1995
Comments: Five underground tanks were removed.

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

ENVIROSTOR:
Name: FORMER TRANSCON LINES
Address: 601 ALADDIN AVENUE
City,State,Zip: SAN LEANDRO, CA 94577
Facility ID: 01470004
Status: No Further Action
Status Date: 03/13/2002
Site Code: 201017
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 8.6
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Jayantha Randeni

TRANSCON LINES (Continued) **S101630334**

Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.71088
Longitude:	-122.1522
APN:	077A-0650-002-10, 077A-0650-003-12
Past Use:	FUEL - VEHICLE STORAGE/ REFUELING, VEHICLE MAINTENANCE
Potential COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE
Potential Description:	OTH, SOIL
Alias Name:	077A-0650-002-10
Alias Type:	APN
Alias Name:	077A-0650-003-12
Alias Type:	APN
Alias Name:	110033614630
Alias Type:	EPA (FRS #)
Alias Name:	201017
Alias Type:	Project Code (Site Code)
Alias Name:	01470004
Alias Type:	Envirostor ID Number
Alias Name:	01990002
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	11/07/1997
Comments:	Order issued to the current owners/operators.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	03/13/2002
Comments:	DTSC determined that no further action is needed at the site due to the declining concentrations in groundwater and because all potential sources have been removed from the site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	10/28/1996
Comments:	Underground tanks were removed, soil excavated and stockpiled on site, soil samples collected and analyzed for hydrocarbons and VOCs. The soil pile was areated and used as backfill. Groundwater sampling conducted in 4 wells. TCE and PCE were detected in groundwater up to 92 ug/l and 2200 ug/l respectively.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	05/21/1999
Comments:	VOCs were sampled in 4 on site wells and TCE was detected from 396

TRANSCON LINES (Continued) **S101630334**

ug/l to 548 ug/l in the wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 05/28/1992
Comments: Phase I investigation identified the possible presence of hazardous materials at site and additional work was recommended.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 06/25/1993
Comments: The existing diesel underground storage tanks may have leaked. Approximately 3,000 cubic yards of diesel affected soil are present at the site. Groundwater at the site is contaminated with trichloroethylene which may be migrating from upgradient sites.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/01/1989
Comments: Soil and groundwater investigation conducted which found subsurface diesel and waste oil contamination at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/13/1995
Comments: Five underground tanks were removed.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST:
Name: TRANSCON LINES
Address: 601 ALADDIN AVE
City,State,Zip: SAN LEANDRO, CA 94577
Lead Agency: SAN LEANDRO, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101383
Global Id: T0600101383
Latitude: 37.7091429
Longitude: -122.1545797
Status: Completed - Case Closed
Status Date: 03/22/2001
Case Worker: UNK
RB Case Number: 01-1498
Local Agency: SAN LEANDRO, CITY OF
File Location: Not reported

TRANSCON LINES (Continued) **S101630334**

Local Case Number: 01-1498
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0600101383
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0600101383
Contact Type: Local Agency Caseworker
Contact Name: UNK
Organization Name: SAN LEANDRO, CITY OF
Address: Not reported
City: r2 UNKNOWN
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600101383
Action Type: RESPONSE
Date: 03/21/2001
Action: Request for Closure

Global Id: T0600101383
Action Type: ENFORCEMENT
Date: 03/21/2001
Action: Closure/No Further Action Letter

Global Id: T0600101383
Action Type: Other
Date: 05/03/1989
Action: Leak Discovery

Global Id: T0600101383
Action Type: Other
Date: 05/03/1989
Action: Leak Stopped

Global Id: T0600101383
Action Type: Other
Date: 05/03/1989
Action: Leak Reported

LUST:
Global Id: T0600101383
Status: Open - Case Begin Date
Status Date: 05/03/1989

Global Id: T0600101383
Status: Open - Verification Monitoring

TRANSCON LINES (Continued) **S101630334**

Status Date: 05/03/1989

Global Id: T0600101383
Status: Open - Site Assessment
Status Date: 06/07/1989

Global Id: T0600101383
Status: Open - Site Assessment
Status Date: 08/15/1989

Global Id: T0600101383
Status: Completed - Case Closed
Status Date: 03/22/2001

LUST REG 2:
Region: 2
Facility Id: 01-1498
Facility Status: Case Closed
Case Number: 01-1498
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 6/7/1989
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 8/15/1989
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: 1/1/1965

SWEEPS UST:
Name: TRANSCON LINES
Address: 601 ALADDIN AVE
City: SAN LEANDRO
Status: Active
Comp Number: 46480
Number: 9
Board Of Equalization: 44-001147
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: GASOLINE-3
SWRCB Tank Id: 01-007-046480-000001
Tank Status: A
Capacity: 10000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: 3

Name: TRANSCON LINES
Address: 601 ALADDIN AVE
City: SAN LEANDRO

TRANSCON LINES (Continued) **S101630334**

Status: Active
Comp Number: 46480
Number: 9
Board Of Equalization: 44-001147
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: DIESEL-#2
SWRCB Tank Id: 01-007-046480-000002
Tank Status: A
Capacity: 10000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: TRANSCON LINES
Address: 601 ALADDIN AVE
City: SAN LEANDRO
Status: Active
Comp Number: 46480
Number: 9
Board Of Equalization: 44-001147
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: DIESEL-#1
SWRCB Tank Id: 01-007-046480-000003
Tank Status: A
Capacity: 8000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 01001617
Regulated By: UTNKA
Regulated ID: 00046480
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4153522440
Mail To: Not reported
Mailing Address: 601 ALADDIN AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: SAN LEANDRO 94577
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

TRANSCON LINES (Continued) **S101630334**

CORTESE:
Name: TRANSCON LINES
Address: 601 ALADDIN AVE
City,State,Zip: SAN LEANDRO, CA 94577
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600101383
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: TRANSCON LINES
edr_fadd1: 601 ALADDIN
City,State,Zip: SAN LEANDRO, CA 94577
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1498

CERS:
Name: TRANSCON LINES
Address: 601 ALADDIN AVE
City,State,Zip: SAN LEANDRO, CA 94577
Site ID: 234200
CERS ID: T0600101383
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: UNK - SAN LEANDRO, CITY OF
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: r2 UNKNOWN
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)

TRANSCON LINES (Continued) **S101630334**

Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

P118 **ACI BULKY ITEM SORTING & STORAGE OP.** **SWF/LF** **S118099932**
WNW **601 ALLADIN AVE.** **CERS** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94577**
0.394 mi.
2080 ft. **Site 3 of 3 in cluster P**

Relative:
Higher

Actual:
44 ft.

SWF/LF (SWIS):

Name:	ACI BULKY ITEM SORTING & STORAGE OP.
Address:	601 ALLADIN AVE.
City,State,Zip:	SAN LEANDRO, CA 94577
Region:	STATE
Facility ID:	01-AA-0319
SWIS Number:	01-AA-0319
Point of Contact:	Alyssa Williams
Is Archived:	No
Is Closed Illegal Abandoned:	No
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Operational Status:	Active
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	Not reported
EPA Federal Registry ID:	Not reported
ARB District:	Bay Area
SWRCB Region:	San Francisco Bay
Local Government:	San Leandro
Reporting Agency Legal Name:	County of Alameda
Reporting Agency Department:	Department of Environmental Health
Enforcing Agency Legal Name:	County of Alameda
Enforcing Agency Department:	Department of Environmental Health
Regulation Status:	Notification

Activity:

SWIS Number:	01-AA-0319
Site Name:	ACI Bulky Item Sorting & Storage Op.
Activity:	Limited Volume Transfer Operation
Activity Is Archived:	No
Category:	Transfer/Processing
Activity Classification:	Solid Waste Operation
WDR Number:	Not reported
WDR Landfill Class:	Not reported
Cease Operation:	Not reported
Cease Operation Type:	Not reported
Inspection Frequency:	Quarterly
Throughput:	2
Throughput Units:	Tons per day
Remaining Capacity:	Not reported
Remaining Capacity Date:	Not reported
Capacity:	650

ACI BULKY ITEM SORTING & STORAGE OP. (Continued) **S118099932**

Capacity Units:	Tons per year
Total Acreage:	0.4
Disposal Acreage:	Not reported
Permitted Elevation:	Not reported
Permitted Elevation Type:	Not reported
Permitted Depth:	Not reported
Permitted Depth Type:	Not reported
Point of Contact:	Alyssa Williams
Site Operational Status:	Active
Site Regulatory Status:	Notification
Site Is Archived:	No
Is Closed Illegal Abandoned:	No
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	Not reported
EPA Federal Registry ID:	Not reported
County:	Alameda
ARB District:	Bay Area
SWRCB Region:	San Francisco Bay
Local Government:	San Leandro
Street Address:	601 Alladin Ave.
City:	San Leandro
State:	CA
ZIP Code:	94577
Reporting Agency Legal Name:	County of Alameda
Reporting Agency Department:	Department of Environmental Health
Enforcing Agency Legal Name:	County of Alameda
Enforcing Agency Department:	Department of Environmental Health

Operator:

SWIS Number:	01-AA-0319
Site Name:	ACI Bulky Item Sorting & Storage Op.
Site Operational Status:	Active
Site Type:	Non-Disposal Only
Site Regulatory Status:	Notification
Latitude:	37.71075
Longitude:	-122.15159
Is Archived:	No
Operator:	Alameda County Industries
Started On:	7/22/2015
Contact Name:	Not reported
Contact Title:	Not reported
Contact Email:	Not reported
Contact Phone:	(510) 375-7282
Street Address:	Louie Pellegrini, Jr. 610 Aladdin Avenue
Operator City:	San Leandro
Operator State:	CA
Operator Zip:	49577-4302

Owner:

SWIS Number:	01-AA-0319
Owner:	The Alladin Depot
Owner Address:	Bob Battinich 577 Alladin Ave.
Owner City:	San Leandro

ACI BULKY ITEM SORTING & STORAGE OP. (Continued) **S118099932**

Owner State:	CA
Owner Zip:	94577
Site Name:	ACI Bulky Item Sorting & Storage Op.
Site Operational Status:	Active
Site Type:	Non-Disposal Only
Site Regulatory Status:	Notification
Latitude:	37.71075
Longitude:	-122.15159
Is Archived:	No
Started On:	7/22/2015
Contact Name:	Not reported
Contact Title:	Not reported
Contact Email:	Not reported
Contact Phone:	(510) 393-3939

Waste:

SWIS Number:	01-AA-0319
Site Name:	ACI Bulky Item Sorting & Storage Op.
Activity:	Limited Volume Transfer Operation
Waste Type:	Other designated
Site Is Archived:	No
Site Operational Status:	Active
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only
Point of Contact:	Alyssa Williams
Activity Is Archived:	No
Activity Operational Status:	Active
Activity Regulatory Status:	Notification
Activity Category:	Transfer/Processing
Activity Classification:	Solid Waste Operation

SWIS Number:	01-AA-0319
Site Name:	ACI Bulky Item Sorting & Storage Op.
Activity:	Limited Volume Transfer Operation
Waste Type:	Other hazardous
Site Is Archived:	No
Site Operational Status:	Active
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only
Point of Contact:	Alyssa Williams
Activity Is Archived:	No
Activity Operational Status:	Active
Activity Regulatory Status:	Notification
Activity Category:	Transfer/Processing
Activity Classification:	Solid Waste Operation

SWIS Number:	01-AA-0319
Site Name:	ACI Bulky Item Sorting & Storage Op.
Activity:	Limited Volume Transfer Operation
Waste Type:	Tires
Site Is Archived:	No
Site Operational Status:	Active
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only
Point of Contact:	Alyssa Williams
Activity Is Archived:	No
Activity Operational Status:	Active

ACI BULKY ITEM SORTING & STORAGE OP. (Continued) **S118099932**

Activity Regulatory Status: Notification
Activity Category: Transfer/Processing
Activity Classification: Solid Waste Operation

CERS:
Name: ACI BULKY ITEM SORTING & STORAGE OP.
Address: 601 ALLADIN AVE.
City,State,Zip: SAN LEANDRO, CA
Site ID: 506474
CERS ID: 01-AA-0319
CERS Description: Solid Waste and Recycle Sites

Affiliation:
Affiliation Type Desc: Legal Operator
Entity Name: Alameda County Industries
Entity Title: Not reported
Affiliation Address: Louie Pellegrini, Jr.610 Aladdin Avenue
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 49577-4302
Affiliation Phone: 5103757282

Affiliation Type Desc: Legal Owner
Entity Name: The Alladin Depot
Entity Title: Not reported
Affiliation Address: Bob Battinich577 Alladin Ave.
Affiliation City: San Leandro
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94577
Affiliation Phone: 5103933939

119
NW
1/4-1/2
0.421 mi.
2222 ft.

Relative: Higher

Actual: 47 ft.

HUDSON
400 HUDSON LN
SAN LEANDRO, CA 94577

LUST **S100179596**
Alameda County CS **N/A**
HIST UST
Cortese
HIST CORTESE
NPDES
Notify 65
CIWQS
CERS

LUST:
Name: HUDSON
Address: 400 HUDSON
City,State,Zip: SAN LEANDRO, CA 94577
Lead Agency: ALAMEDA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100721
Global Id: T0600100721
Latitude: 37.714046
Longitude: -122.148444
Status: Completed - Case Closed
Status Date: 06/20/1996
Case Worker: Not reported

HUDSON (Continued) **S100179596**

RB Case Number: 01-0784
Local Agency: Not reported
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: RO0000970
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0600100721
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600100721
Action Type: RESPONSE
Date: 06/20/1996
Action: Final Remedial Action Report / Corrective Action Report

Global Id: T0600100721
Action Type: Other
Date: 10/15/1990
Action: Leak Reported

Global Id: T0600100721
Action Type: REMEDIATION
Date: 05/01/1991
Action: Excavation

Global Id: T0600100721
Action Type: RESPONSE
Date: 06/20/1996
Action: Other Report / Document

LUST:
Global Id: T0600100721
Status: Open - Case Begin Date
Status Date: 10/15/1990

Global Id: T0600100721
Status: Completed - Case Closed
Status Date: 06/20/1996

LUST REG 2:
Region: 2
Facility Id: 01-0784
Facility Status: Case Closed
Case Number: 2697
How Discovered: Tank Closure
Leak Cause: Structure Failure

HUDSON (Continued) **S100179596**

Leak Source: Tank
Date Leak Confirmed: 12/19/1991
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 10/30/1991
Preliminary Site Assesment Began: 12/31/1992
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Name: HUDSON
Address: 400 HUDSON LN
City,State,Zip: SAN LEANDRO, CA 94577
Status: Case Closed
Record Id: RO0000970
PE: 5602
Facility Status: Case Closed
Latitude: 37.714414709
Longitude: -122.14948649

HIST UST:
Name: HUDSON ICS
Address: 400 HUDSON LANE
City,State,Zip: SAN LEANDRO, CA 94577
File Number: 0003603F
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0003603F.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:

CORTESE:
Name: HUDSON
Address: 400 HUDSON
City,State,Zip: SAN LEANDRO, CA 94577
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600100721

HUDSON (Continued) **S100179596**

Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	HUDSON
edr_fadd1:	400 HUDSON
City,State,Zip:	SAN LEANDRO, CA 94577
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0784

edr_fname:	HUDSON I C S
edr_fadd1:	400 HUDSON
City,State,Zip:	SAN LEANDRO, CA 94577
Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01240035

NPDES:

Name:	LINEAGE LOGISTICS PFS
Address:	400 HUDSON LANE
City,State,Zip:	SAN LEANDRO, CA 94577
Facility Status:	Active
NPDES Number:	CAS000001
Region:	2
Agency Number:	0
Regulatory Measure ID:	528776
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	2 01NEC008172
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	12/18/2020
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	46500 Humboldt Drive
Discharge Name:	Lineage Logistics PFS

HUDSON (Continued) **S100179596**

Discharge City:	Novi
Discharge State:	California
Discharge Zip:	48377
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

Name:	PREFERRED FREEZER SERVICES OF SAN LEANDRO
Address:	400 HUDSON LANE
City,State,Zip:	SAN LEANDRO, CA 94577
Facility Status:	Terminated
NPDES Number:	CAS000001
Region:	2
Agency Number:	0
Regulatory Measure ID:	469462
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	2 01NEC001938
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/23/2016
Termination Date Of Regulatory Measure:	11/24/2020
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	400 Hudson Lane
Discharge Name:	Preferred Freezer Services of San Leandro
Discharge City:	San Leandro
Discharge State:	California
Discharge Zip:	94577
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	469462
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 01NEC001938
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

HUDSON (Continued) **S100179596**

Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	02/15/2016
Processed Date:	03/23/2016
Status:	Active
Status Date:	03/23/2016
Place Size:	665123
Place Size Unit:	SqFt
Contact:	Richard Moreno
Contact Title:	General Manager
Contact Phone:	510-352-3900
Contact Phone Ext:	2879
Contact Email:	rmoreno@preferredfreezer.com
Operator Name:	Preferred Freezer Services of San Leandro
Operator Address:	400 Hudson Lane
Operator City:	San Leandro
Operator State:	California
Operator Zip:	94577
Operator Contact:	Richard Moreno
Operator Contact Title:	General Manager
Operator Contact Phone:	510-352-3900
Operator Contact Phone Ext:	2879
Operator Contact Email:	rmoreno@preferredfreezer.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Jesse Gross
Certifier Title:	HSE Director
Certification Date:	28-JUL-17
Primary Sic:	4222-Refrigerated Warehousing and Storage

HUDSON (Continued) **S100179596**

Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	469462
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01NEC001938
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/23/2016
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Preferred Freezer Services of San Leandro
Discharge Address:	400 Hudson Lane
Discharge City:	San Leandro
Discharge State:	California
Discharge Zip:	94577
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
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:	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:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	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

HUDSON (Continued) **S100179596**

Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	LINEAGE LOGISTICS PFS
Address:	400 HUDSON LANE
City,State,Zip:	SAN LEANDRO, CA 94577
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 01NEC008172
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	12/18/2020
Operator Name:	Lineage Logistics PFS
Operator Address:	46500 Humboldt Drive
Operator City:	Novi
Operator State:	California
Operator Zip:	48377

Name:	PREFERRED FREEZER SERVICES OF SAN LEANDRO
Address:	400 HUDSON LANE
City,State,Zip:	SAN LEANDRO, CA 94577
Facility Status:	Not reported

HUDSON (Continued) **S100179596**

NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	2 01NEC001938
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	04/22/2021
Operator Name:	Preferred Freezer Services of San Leandro
Operator Address:	400 Hudson Lane
Operator City:	San Leandro
Operator State:	California
Operator Zip:	94577

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	2
Regulatory Measure ID:	469462
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	2 01NEC001938
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:	02/15/2016
Processed Date:	03/23/2016
Status:	Active
Status Date:	03/23/2016
Place Size:	665123
Place Size Unit:	SqFt
Contact:	Richard Moreno
Contact Title:	General Manager
Contact Phone:	510-352-3900
Contact Phone Ext:	2879
Contact Email:	rmoreno@preferredfreezer.com
Operator Name:	Preferred Freezer Services of San Leandro

HUDSON (Continued) **S100179596**

Operator Address:	400 Hudson Lane
Operator City:	San Leandro
Operator State:	California
Operator Zip:	94577
Operator Contact:	Richard Moreno
Operator Contact Title:	General Manager
Operator Contact Phone:	510-352-3900
Operator Contact Phone Ext:	2879
Operator Contact Email:	rmoreno@preferredfreezer.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Jesse Gross
Certifier Title:	HSE Director
Certification Date:	28-JUL-17
Primary Sic:	4222-Refrigerated Warehousing and Storage
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	2
Regulatory Measure ID:	469462
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	2 01NEC001938
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/23/2016

HUDSON (Continued) **S100179596**

Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Preferred Freezer Services of San Leandro
Discharge Address:	400 Hudson Lane
Discharge City:	San Leandro
Discharge State:	California
Discharge Zip:	94577
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
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:	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:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported

HUDSON (Continued) **S100179596**

Certifier: Not reported
Certifier Title: Not reported
Certification Date: Not reported
Primary Sic: Not reported
Secondary Sic: Not reported
Tertiary Sic: Not reported

NOTIFY 65:
Name: HUDSON ICS
Address: 400 HUDSON LANE
City,State,Zip: SAN LEANDRO, CA 92584
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
Global ID: Not reported
Status: Not reported

CIWQS:
Name: PREFERRED FREEZER SERVICES OF SAN LEANDRO
Address: 400 HUDSON LANE
City,State,Zip: SAN LEANDRO, CA 94577
Agency: Preferred Freezer Services of San Leandro
Agency Address: 400 Hudson Lane, San Leandro, CA 94577
Place/Project Type: Industrial - Refrigerated Warehousing and Storage
SIC/NAICS: 4222
Region: 2
Program: INDSTW
Regulatory Measure Status: Active
Regulatory Measure Type: Storm water industrial
Order Number: 2014-0057-DWQ
WDID: 2 01NEC001938
NPDES Number: CAS000001
Adoption Date: 01/01/1900
Effective Date: 03/23/2016
Termination Date: 01/01/1900
Expiration/Review Date: 01/01/1900
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 37.71232
Longitude: -122.15069

Name: PREFERRED FREEZER SERVICES
Address: 400 HUDSON LN
City,State,Zip: SAN LEANDRO, CA 94577
Agency: Dynamic Builders Inc
Agency Address: 2114 S Hill St, Los Angeles, CA 90007
Place/Project Type: Construction - Commercial

HUDSON (Continued) **S100179596**

SIC/NAICS:	Not reported
Region:	2
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	2 01C352946
NPDES Number:	CAS000002
Adoption Date:	01/01/1900
Effective Date:	08/11/2008
Termination Date:	03/12/2013
Expiration/Review Date:	01/01/1900
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.725
Longitude:	-122.153

CERS:

Name:	HUDSON
Address:	400 HUDSON
City,State,Zip:	SAN LEANDRO, CA 94577
Site ID:	198134
CERS ID:	T0600100721
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Name:	PREFERRED FREEZER SERVICES OF SAN LEANDRO
Address:	400 HUDSON LANE
City,State,Zip:	SAN LEANDRO, CA 94577
Site ID:	539899
CERS ID:	844384
CERS Description:	Industrial Facility Storm Water

Affiliation:

Affiliation Type Desc:	Owner/Operator
Entity Name:	Preferred Freezer Services of San Leandro
Entity Title:	Operator
Affiliation Address:	400 Hudson Lane
Affiliation City:	San Leandro
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94577
Affiliation Phone:	Not reported

Q120
WNW
1/4-1/2
0.432 mi.
2279 ft.

U. S. CAN COMPANY SITE
2756 ALVARADO STREET
SAN LEANDRO, CA 94577

Site 1 of 3 in cluster Q

RESPONSE
ENVIROSTOR
HIST Cal-Sites
EMI

S102002464
N/A

Relative:
Higher

Actual:
39 ft.

RESPONSE:

Name:	U. S. CAN COMPANY SITE
Address:	2756 ALVARADO STREET
City,State,Zip:	SAN LEANDRO, CA 94577
Facility ID:	01340117
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	7
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Jayantha Randeni
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	200688
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	18
Senate:	09
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	05/31/2006
Restricted Use:	NO
Funding:	Responsible Party
Latitude:	37.70910
Longitude:	-122.1529
APN:	77B-800-14
Past Use:	MANUFACTURING - OTHER
Potential COC :	Tetrachloroethylene (PCE Trichloroethylene (TCE 1,2-Dichloroethylene (cis
Confirmed COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE 1,2-Dichloroethylene (cis
Potential Description:	OTH
Alias Name:	77B-800-14
Alias Type:	APN
Alias Name:	CAD009133117
Alias Type:	EPA Identification Number
Alias Name:	110002147105
Alias Type:	EPA (FRS #)
Alias Name:	200688
Alias Type:	Project Code (Site Code)
Alias Name:	01340117
Alias Type:	Envirostor ID Number
Alias Name:	01990002
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	04/19/1996
Comments:	Issued I&SE Order to three Responsible Parties. The current owners and past owner/operators, US Can Company and the Sherwin Williams Company. The order requires investigation of the site which is within the San Leandro Plume.

U. S. CAN COMPANY SITE (Continued) **S102002464**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/31/2006
Comments: Based on the review of current and historical data, the site does not appear to currently have a source of hazardous substances which is contributing to groundwater contamination and does not appear to pose a current threat to human health or the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Report
Completed Date: 08/20/2018
Comments: This letter documents the destruction of five monitoring wells (MW-1, MW-5, MW-6, MW-7, and MW-8) and the protection of one well (MW-2) at the Site. Monitoring well MW-6 was to be protected, however, well functionally was compromised. Monitoring well MW-6 was abandoned following the same procedures as to other wells. Following the completion of the redevelopment activities, the Site owner will consult with the DTSC regarding the replacement of well MW-6 and the rehabilitation of well MW-2.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Completion Report
Completed Date: 03/26/2021
Comments: MW-2 rehabilitation and MW-6R installation survey data, and MW-6R completion report included. MW-6R installed at an accessible area at the Site. If necessary, DTSC may collect discrete groundwater samples from this well. MW-6R s above-ground surface completions met the 2014 DTSC Well Design and Construction for Monitoring Groundwater at Contaminated Sites. MW-2 rehabilitated with flush mounted well box.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/05/2020
Comments: MW-6R installed at an accessible area to allow DTSC to collect groundwater samples from the well, if necessary. MW-6R s above-ground surface completions met the 2014 DTSC Well Design and Construction for Monitoring Groundwater at Contaminated Sites. MW-2 was rehabilitated with flush mounted well box.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/16/2017
Comments: Response to request to close unused wells at the US CAN Site. DTSC agrees to the proper closure of any well located on the Site with the exception of MW-2 and MW-6 which were sampled in 2014, and which DTSC needs to continue to use to monitor the regional groundwater plume known as the DWA Plume. DTSC will continue to periodically need access to these wells to collect groundwater elevation and samples for analysis.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

U. S. CAN COMPANY SITE (Continued) **S102002464**

Completed Document Type: Remedial Investigation Report
Completed Date: 10/28/1997
Comments: The highest upper zone TCE concentration was 440 ug/l. The highest lower zone TCE concentration was 630 ug/l, significantly lower than the 1989 concentrations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 07/31/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/30/1989
Comments: PEA indicates soils and groundwater is contmaniated with VOCs and petrolium hydrocarbon and further investigation is required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/12/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/30/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/04/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/02/2005
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

ENVIROSTOR:
Name: U. S. CAN COMPANY SITE
Address: 2756 ALVARADO STREET
City,State,Zip: SAN LEANDRO, CA 94577

U. S. CAN COMPANY SITE (Continued) **S102002464**

Facility ID: 01340117
Status: No Further Action
Status Date: 05/31/2006
Site Code: 200688
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 7
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Jayantha Randeni
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.70910
Longitude: -122.1529
APN: 77B-800-14
Past Use: MANUFACTURING - OTHER
Potential COC: Tetrachloroethylene (PCE Trichloroethylene (TCE 1,2-Dichloroethylene (cis
Confirmed COC: Tetrachloroethylene (PCE Trichloroethylene (TCE 1,2-Dichloroethylene (cis
Potential Description: OTH
Alias Name: 77B-800-14
Alias Type: APN
Alias Name: CAD009133117
Alias Type: EPA Identification Number
Alias Name: 110002147105
Alias Type: EPA (FRS #)
Alias Name: 200688
Alias Type: Project Code (Site Code)
Alias Name: 01340117
Alias Type: Envirostor ID Number
Alias Name: 01990002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 04/19/1996
Comments: Issued I&SE Order to three Responsible Parties. The current owners and past owner/operators, US Can Company and the Sherwin Williams Company. The order requires investigation of the site which is within the San Leandro Plume.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/31/2006
Comments: Based on the review of current and historical data, the site does not appear to currently have a source of hazardous substances which is contributing to groundwater contamination and does not appear to pose

U. S. CAN COMPANY SITE (Continued) **S102002464**

a current threat to human health or the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Report
Completed Date: 08/20/2018
Comments: This letter documents the destruction of five monitoring wells (MW-1, MW-5, MW-6, MW-7, and MW-8) and the protection of one well (MW-2) at the Site. Monitoring well MW-6 was to be protected, however, well functionally was compromised. Monitoring well MW-6 was abandoned following the same procedures as to other wells. Following the completion of the redevelopment activities, the Site owner will consult with the DTSC regarding the replacement of well MW-6 and the rehabilitation of well MW-2.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Completion Report
Completed Date: 03/26/2021
Comments: MW-2 rehabilitation and MW-6R installation survey data, and MW-6R completion report included. MW-6R installed at an accessible area at the Site. If necessary, DTSC may collect discrete groundwater samples from this well. MW-6R s above-ground surface completions met the 2014 DTSC Well Design and Construction for Monitoring Groundwater at Contaminated Sites. MW-2 rehabilitated with flush mounted well box.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/05/2020
Comments: MW-6R installed at an accessible area to allow DTSC to collect groundwater samples from the well, if necessary. MW-6R s above-ground surface completions met the 2014 DTSC Well Design and Construction for Monitoring Groundwater at Contaminated Sites. MW-2 was rehabilitated with flush mounted well box.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/16/2017
Comments: Response to request to close unused wells at the US CAN Site. DTSC agrees to the proper closure of any well located on the Site with the exception of MW-2 and MW-6 which were sampled in 2014, and which DTSC needs to continue to use to monitor the regional groundwater plume known as the DWA Plume. DTSC will continue to periodically need access to these wells to collect groundwater elevation and samples for analysis.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 10/28/1997
Comments: The highest upper zone TCE concentration was 440 ug/l. The highest lower zone TCE concentration was 630 ug/l, significantly lower than the 1989 concentrations.

Completed Area Name: PROJECT WIDE

U. S. CAN COMPANY SITE (Continued) **S102002464**

Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 07/31/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/30/1989
Comments: PEA indicates soils and groundwater is contmaniated with VOCs and petrolium hydrocarbon and further investigation is required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/12/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/30/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/04/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/02/2005
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

Calsite:
Name: U. S. CAN COMPANY SITE
Address: 2756 ALVARADO STREET
City: SAN LEANDRO
Region: BERKELEY
Facility ID: 01340117
Facility Type: RP
Type: RESPONSIBLE PARTY
Branch: NC
Branch Name: NORTH COAST
File Name: Not reported

U. S. CAN COMPANY SITE (Continued) **S102002464**

State Senate District: 05091996
Status: ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Not Listed
SIC Code: 34
SIC Name: MANU - FABRICATED METAL PRODUCTS
Access: Controlled
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Confirmed
Staff Member Responsible for Site: JRANDENI
Supervisor Responsible for Site: Not reported
Region Water Control Board: SF
Region Water Control Board Name: SAN FRANCISCO BAY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 18
State Senate District Code: 10
Facility ID: 01340117
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: I&SE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 04191996
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 2756 ALVARADO STREET
Alternate City,St,Zip: SAN LEANDRO, CA 94577
Background Info: The site consists of a 130,000 square foot building on 7 acres of land. In 1957, Sherwin-Williams manufactured metal cans and containers. Solvents were used as part of that process. In 1983, the facility was sold to U. S. Can Company, who continued to use the same processes to manufacture metal cans and containers. U.S. Can Company added an aerosol can manufacturing operation. The manufacturing facility closed in 1989. The building is used for warehousing. Investigations found that both the soil and groundwater at the Site were contaminated with dichloroethane,

U. S. CAN COMPANY SITE (Continued) **S102002464**

dichloroethylene, and tetrachloroethylene. A limited soil hot spot was removed and a sump was closed in place. The site is located within a regional groundwater plume located in Central San Leandro. Groundwater contamination will be addressed as part of the regional plume (see site ID 01990002).

Comments Date:	04191996
Comments:	Issued I&SE Order to three Responsible Parties. The current
Comments Date:	04191996
Comments:	owners, Mr. & Mrs. Noel Yi; and past owner/operators, US Can
Comments Date:	04191996
Comments:	Company and the Sherwin Williams Company. The order requires
Comments Date:	04191996
Comments:	investigation of the site which is within the San Leandro Plume.
ID Name:	EPA IDENTIFICATION NUMBER
ID Value:	CAD009133117
ID Name:	CALSTARS CODE
ID Value:	200688
Alternate Name:	U. S. CAN COMPANY SITE
Alternate Name:	Not reported
Special Programs Code:	Not reported
Special Programs Name:	Not reported

EMI:

Name:	US CAN COMPANY
Address:	2756 ALVARADO STREET
City,State,Zip:	SAN LEANDRO, CA 945770000
Year:	1987
County Code:	1
Air Basin:	SF
Facility ID:	1386
Air District Name:	BA
SIC Code:	3411
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	93
Reactive Organic Gases Tons/Yr:	80
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Q121 **UNITED STATES CAN COMPANY** **Notify 65** **S118152750**
WNW **2756 ALVARADO** **N/A**
1/4-1/2 **SAN LEANDRO, CA 92584**
0.432 mi.
2279 ft. **Site 2 of 3 in cluster Q**

Relative:
Higher

Actual:
39 ft.

NOTIFY 65:

Name:	UNITED STATES CAN COMPANY
Address:	2756 ALVARADO
City,State,Zip:	SAN LEANDRO, CA 92584
Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported

UNITED STATES CAN COMPANY (Continued) **S118152750**

Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported
Global ID: Not reported
Status: Not reported

122
NNW
1/4-1/2
0.433 mi.
2284 ft.

STAEFA CO
2481 SAN LEANDRO BLVD
SAN LEANDRO, CA 94577

ENVIROSTOR
VCP
HAZNET
HWTS

S112856670
N/A

Relative:
Higher

Actual:
51 ft.

ENVIROSTOR:

Name:	STAEFA CONTROL SYSTEM INC
Address:	2481 SAN LEANDRO BOULEVARD
City,State,Zip:	SAN LEANDRO, CA 94577
Facility ID:	01380001
Status:	No Further Action
Status Date:	07/12/2001
Site Code:	200648
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1.4
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Jayantha Randeni
Supervisor:	Cheryl Prowell
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.71311
Longitude:	-122.1495
APN:	075-0084-014-05, 75-84-14-5
Past Use:	MANUFACTURING - INDUSTRIAL MACHINERY
Potential COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE 1,2-Dichloroethylene (cis
Confirmed COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE 1,2-Dichloroethylene (cis
Potential Description:	OTH, SOIL
Alias Name:	NINYO & MOORE
Alias Type:	Alternate Name
Alias Name:	SINGER FRIDEN
Alias Type:	Alternate Name
Alias Name:	STAEFA CONTROL SYSTEM
Alias Type:	Alternate Name
Alias Name:	UNIVERSAL PNEUMATIC CONTROL
Alias Type:	Alternate Name
Alias Name:	075-0084-014-05
Alias Type:	APN
Alias Name:	75-84-14-5
Alias Type:	APN
Alias Name:	110033617842
Alias Type:	EPA (FRS #)

STAEFA CO (Continued) **S112856670**

Alias Name: 200648
Alias Type: Project Code (Site Code)
Alias Name: 01380001
Alias Type: Envirostor ID Number
Alias Name: 01990002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/03/2000
Comments: Based on sampling data, DTSC issued a letter requiring no further action for soils at the Site since the soil contamination appears to be not related ot the site. DTSC will conduct a soil removal under the DWA Plume project. Semiannual groundwater monitoring will continue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 10/31/1988
Comments: Further investigation recommended for groundwater.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/12/2001
Comments: Based on the results of the Groundwater Monitoring Report dated 3/01/01, DTSC determined that groundwater monitoring at the site would no longer be necessary.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/19/1999
Comments: Highest PCE in soil was detected at 2.2 mg/kg at 4' bgs and higest TCE also was detected at 0.41 mg/kg at 6' bgs at the same location near the San Leandro Blvd. Three moniroing wells were also sampled.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/07/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Voluntary Cleanup Agreement Completion
Completed Date: 07/12/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 12/18/1998
Comments: DTSC and Ninyo & Moore signed an amendment to the VCA which allows work to continue under Chapter 6.5 of the Health and Safety Code.

STAEFA CO (Continued) **S112856670**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 06/12/1998
Comments: Entered into a new VCA with new property owner, Ninyo & Moore. VCA is for review of investigation report prepared as part of property transfer evaluation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 03/28/1996
Comments: DTSC and Staefa entered into an Agreement to investigate soil contamination at the site. Based on the results of the investigation, a determination will be made regarding the site's contribution to the Regional groundwater plume.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/12/1988
Comments: Site was brought to DTSC when STAEFA discovered soil and groundwater contamination on property while attempting to sell property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Consultation
Completed Date: 06/30/1997
Comments: Consultative services under the VCA completed. DTSC believes additional work is required at the site based on the data presented in the investigation report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Consultation
Completed Date: 11/18/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/01/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 12/19/1996
Comments: 21 parts per million of tetrachloro ethene was found 10 feet below the ground suface in the city right of way next to the property. Concentrations of PCE onsite in the top 3 feet of soil near this area are up to 1.3 ppm. Groundwater concentrations of PCE are also elevated near this sampling location. Also, in a different area of the site, a downgradient monitoring well had significantly higher concentrations than the upgradient hydropunch samples.

Completed Area Name: PROJECT WIDE

STAEFA CO (Continued) **S112856670**

Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	10/03/1988
Comments:	The report concludes that there is no evidence of significant historic chemical usage or storage at the Site and chemicals detected on site in soils and groundwater originated off the Site and do not appear to be related to Staefa activities at the Site.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Name:	STAEFA CONTROL SYSTEM INC
Address:	2481 SAN LEANDRO BOULEVARD
City,State,Zip:	SAN LEANDRO, CA 94577
Facility ID:	01380001
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.4
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Jayantha Randeni
Supervisor:	Cheryl Prowell
Division Branch:	Cleanup Berkeley
Site Code:	200648
Assembly:	18
Senate:	09
Special Programs Code:	Not reported
Status:	No Further Action
Status Date:	07/12/2001
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.71311 / -122.1495
APN:	075-0084-014-05, 75-84-14-5
Past Use:	MANUFACTURING - INDUSTRIAL MACHINERY
Potential COC:	30022, 30027, 30195
Confirmed COC:	30022,30027,30195
Potential Description:	OTH, SOIL
Alias Name:	NINYO & MOORE
Alias Type:	Alternate Name
Alias Name:	SINGER FRIDEN
Alias Type:	Alternate Name
Alias Name:	STAEFA CONTROL SYSTEM
Alias Type:	Alternate Name
Alias Name:	UNIVERSAL PNEUMATIC CONTROL
Alias Type:	Alternate Name
Alias Name:	075-0084-014-05

STAEFA CO (Continued) **S112856670**

Alias Type: APN
Alias Name: 75-84-14-5
Alias Type: APN
Alias Name: 110033617842
Alias Type: EPA (FRS #)
Alias Name: 200648
Alias Type: Project Code (Site Code)
Alias Name: 01380001
Alias Type: Envirostor ID Number
Alias Name: 01990002
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/03/2000
Comments: Based on sampling data, DTSC issued a letter requiring no further action for soils at the Site since the soil contamination appears to be not related ot the site. DTSC will conduct a soil removal under the DWA Plume project. Semiannual groundwater monitoring will continue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 10/31/1988
Comments: Further investigation recommended for groundwater.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/12/2001
Comments: Based on the results of the Groundwater Monitoring Report dated 3/01/01, DTSC determined that groundwater monitoring at the site would no longer be necessary.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/19/1999
Comments: Highest PCE in soil was detected at 2.2 mg/kg at 4’ bgs and higest TCE also was detected at 0.41 mg/kg at 6’ bgs at the same location near the San Leandro Blvd. Three moniroing wells were also sampled.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/07/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Voluntary Cleanup Agreement Completion
Completed Date: 07/12/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE

STAEFA CO (Continued) **S112856670**

Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 12/18/1998
Comments: DTSC and Ninyo & Moore signed an amendment to the VCA which allows work to continue under Chapter 6.5 of the Health and Safety Code.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 06/12/1998
Comments: Entered into a new VCA with new property owner, Ninyo & Moore. VCA is for review of investigation report prepared as part of property transfer evaluation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 03/28/1996
Comments: DTSC and Staefa entered into an Agreement to investigate soil contamination at the site. Based on the results of the investigation, a determination will be made regarding the site's contribution to the Regional groundwater plume.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/12/1988
Comments: Site was brought to DTSC when STAEFA discovered soil and groundwater contamination on property while attempting to sell property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Consultation
Completed Date: 06/30/1997
Comments: Consultative services under the VCA completed. DTSC believes additional work is required at the site based on the data presented in the investigation report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Consultation
Completed Date: 11/18/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/01/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 12/19/1996
Comments: 21 parts per million of tetrachloro ethene was found 10 feet below the ground suface in the city right of way next to the property. Concentrations of PCE onsite in the top 3 feet of soil near this area

STAEFA CO (Continued) **S112856670**

are up to 1.3 ppm. Groundwater concentrations of PCE are also elevated near this sampling location. Also, in a different area of the site, a downgradient monitoring well had significantly higher concentrations than the upgradient hydropunch samples.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 10/03/1988
Comments: The report concludes that there is no evidence of significant historic chemical usage or storage at the Site and chemicals detected on site in soils and groundwater originated off the Site and do not appear to be related to Staefa activities at the Site.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HAZNET:
Name: STAEFA CO
Address: 2481 SAN LEANDRO BLVD
Address 2: Not reported
City,State,Zip: SAN LEANDRO, CA 945770000
Contact: W. GAULT/PRINCIPAL
Telephone: 5105823127
Mailing Name: Not reported
Mailing Address: PO BOX 1812

Year: 1994
Gepaid: CAC000962528
TSD EPA ID: CAD981388952
CA Waste Code: 151 - Asbestos containing waste
Disposal Method: D80 - Disposal, Land Fill
Tons: 0.8428

Additional Info:
Year: 1994
Gen EPA ID: CAC000962528

Shipment Date: 19940927
Creation Date: 10/17/1995 0:00:00
Receipt Date: 19940928
Manifest ID: 92289924
Trans EPA ID: CAD981634892
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD981388952
Trans Name: Not reported

STAEFA CO (Continued) **S112856670**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.8428
Waste Quantity:	1
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	STAEFA CO
Address:	2481 SAN LEANDRO BLVD
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945770000
EPA ID:	CAC000962528
Inactive Date:	10/25/2000
Create Date:	08/23/1994
Last Act Date:	10/25/2000
Mailing Name:	Not reported
Mailing Address:	PO BOX 1812
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN LEANDRO, CA 945770000
Owner Name:	STAEFA CO
Owner Address:	PO BOX 1812
Owner Address 2:	Not reported
Owner City,State,Zip:	SAN LEANDRO, CA 945770000
Contact Name:	W. GAULT/PRINCIPAL
Contact Address:	PO BOX 1812
Contact Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945770000

R123 **K MART** **LUST** **S105033534**
SSE **250 FLORESTA** **Cortese** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94578**
0.436 mi.
2300 ft. **Site 1 of 2 in cluster R**

Relative: **Lower**

Actual: **38 ft.**

LUST REG 2:

Region:	2
Facility Id:	01-0836
Facility Status:	Case Closed
Case Number:	01-0836
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	Not reported
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported

K MART (Continued) **S105033534**

Date Post Remedial Action Monitoring Began: Not reported

CORTESE:

Name:	K MART
Address:	250 FLORESTA
City,State,Zip:	SAN LEANDRO, CA 94578
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0600100770
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

R124 **K MART ENTERPRISES** **LUST** **U001598517**
SSE **250 FLORESTA BLVD** **HIST UST** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94578** **HIST CORTESE**
0.436 mi. **CERS**
2300 ft. **Site 2 of 2 in cluster R**

Relative:
Lower

Actual:
38 ft.

LUST:

Name:	K MART
Address:	250 FLORESTA
City,State,Zip:	SAN LEANDRO, CA 94578
Lead Agency:	SAN LEANDRO, CITY OF
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100770
Global Id:	T0600100770
Latitude:	37.70065
Longitude:	-122.141741
Status:	Completed - Case Closed
Status Date:	08/18/1994
Case Worker:	UNK
RB Case Number:	01-0836
Local Agency:	SAN LEANDRO, CITY OF
File Location:	Not reported
Local Case Number:	01-0836
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0600100770
Contact Type:	Regional Board Caseworker

K MART ENTERPRISES (Continued) **U001598517**

Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0600100770
Contact Type: Local Agency Caseworker
Contact Name: UNK
Organization Name: SAN LEANDRO, CITY OF
Address: Not reported
City: r2 UNKNOWN
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600100770
Action Type: ENFORCEMENT
Date: 08/15/1994
Action: Closure Summary

Global Id: T0600100770
Action Type: Other
Date: 10/28/1987
Action: Leak Discovery

Global Id: T0600100770
Action Type: Other
Date: 10/28/1987
Action: Leak Stopped

Global Id: T0600100770
Action Type: Other
Date: 10/28/1987
Action: Leak Reported

LUST:
Global Id: T0600100770
Status: Open - Case Begin Date
Status Date: 10/28/1987

Global Id: T0600100770
Status: Completed - Case Closed
Status Date: 08/18/1994

HIST UST:
Name: K MART ENTERPRISES
Address: 250 FLORESTA BLVD
City,State,Zip: SAN LEANDRO, CA 94578
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000014465
Facility Type: Other

K MART ENTERPRISES (Continued) **U001598517**

Other Type: AUTO REPAIR
Contact Name: Not reported
Telephone: 4157567646
Owner Name: KMART CORPORATION
Owner Address: P.O. BOX 3150
Owner City,St,Zip: TROY, MI 48084
Total Tanks: 0001

Tank Num: 001
Container Num: 4144
Year Installed: 1977
Tank Capacity: 00000500
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: 3/16"
Leak Detection: Pressure Test

HIST CORTESE:
edr_fname: K MART
edr_fadd1: 250 FLORESTA
City,State,Zip: SAN LEANDRO, CA
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0836

CERS:
Name: K MART
Address: 250 FLORESTA
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 260878
CERS ID: T0600100770
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: UNK - SAN LEANDRO, CITY OF
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: r2 UNKNOWN
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

125
SE
1/4-1/2
0.453 mi.
2390 ft.

WASHINGTON SQUARE
14400 WASHINGTON AVE
SAN LEANDRO, CA 94578

LUST
Cortese
HIST CORTESE
CERS

S100227044
N/A

Relative:
Higher

Actual:
41 ft.

LUST:

Name:	WASHINGTON SQUARE
Address:	14400 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Lead Agency:	SAN LEANDRO, CITY OF
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101524
Global Id:	T0600101524
Latitude:	37.700982
Longitude:	-122.139904
Status:	Completed - Case Closed
Status Date:	10/26/1998
Case Worker:	UNK
RB Case Number:	01-1649
Local Agency:	SAN LEANDRO, CITY OF
File Location:	Not reported
Local Case Number:	01-1649
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0600101524
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0600101524
Contact Type:	Local Agency Caseworker
Contact Name:	UNK
Organization Name:	SAN LEANDRO, CITY OF
Address:	Not reported
City:	r2 UNKNOWN
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600101524
Action Type:	ENFORCEMENT
Date:	10/07/1992
Action:	Staff Letter

Global Id:	T0600101524
Action Type:	ENFORCEMENT
Date:	08/13/1990
Action:	Staff Letter

Global Id:	T0600101524
Action Type:	ENFORCEMENT

WASHINGTON SQUARE (Continued) **S100227044**

Date: 09/01/1998
Action: Closure Summary

Global Id: T0600101524
Action Type: ENFORCEMENT
Date: 10/26/1998
Action: Closure/No Further Action Letter

Global Id: T0600101524
Action Type: Other
Date: 04/29/1988
Action: Leak Discovery

Global Id: T0600101524
Action Type: Other
Date: 04/29/1988
Action: Leak Stopped

Global Id: T0600101524
Action Type: Other
Date: 04/29/1988
Action: Leak Reported

LUST:
Global Id: T0600101524
Status: Open - Case Begin Date
Status Date: 04/29/1988

Global Id: T0600101524
Status: Open - Remediation
Status Date: 08/01/1988

Global Id: T0600101524
Status: Completed - Case Closed
Status Date: 10/26/1998

LUST REG 2:
Region: 2
Facility Id: 01-1649
Facility Status: Case Closed
Case Number: 01-1649
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: 8/1/1988
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CORTESE:
Name: WASHINGTON SQUARE

WASHINGTON SQUARE (Continued) **S100227044**

Address:	14400 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0600101524
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	WASHINGTON SQUARE
edr_fadd1:	14400 WASHINGTON
City,State,Zip:	SAN LEANDRO, CA
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1649

CERS:

Name:	WASHINGTON SQUARE
Address:	14400 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	257061
CERS ID:	T0600101524
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	UNK - SAN LEANDRO, CITY OF
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	r2 UNKNOWN
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND

WASHINGTON SQUARE (Continued) **S100227044**

Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

126
West
1/4-1/2
0.460 mi.
2427 ft.

DUNITZ & STERN
3050 TEAGARDEN
SAN LEANDRO, CA 94577

LUST **S104577252**
Cortese **N/A**
CERS

Relative:
Lower

Actual:
34 ft.

LUST:
Name: DUNITZ & STERN
Address: 3050 TEAGARDEN
City,State,Zip: SAN LEANDRO, CA 94577
Lead Agency: SAN LEANDRO, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600158364
Global Id: T0600158364
Latitude: 37.706302
Longitude: -122.155184
Status: Completed - Case Closed
Status Date: 10/01/2009
Case Worker: LM
RB Case Number: 01-3559
Local Agency: SAN LEANDRO, CITY OF
File Location: Local Agency
Local Case Number: cs 10300
Potential Media Affect: Under Investigation
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0600158364
Action Type: Other
Date: 07/10/2007
Action: Leak Discovery

Global Id: T0600158364
Action Type: Other
Date: 12/06/2007
Action: Leak Reported

Global Id: T0600158364
Action Type: RESPONSE
Date: 10/01/2009
Action: Soil and Water Investigation Report

Global Id: T0600158364
Action Type: RESPONSE
Date: 10/01/2009
Action: Correspondence

Global Id: T0600158364
Action Type: RESPONSE
Date: 10/01/2009
Action: Tank Removal Report / UST Sampling Report

DUNITZ & STERN (Continued) **S104577252**

Global Id: T0600158364
Action Type: REMEDIATION
Date: 11/01/2007
Action: Not reported

LUST:
Global Id: T0600158364
Status: Open - Case Begin Date
Status Date: 07/10/2007

Global Id: T0600158364
Status: Open - Site Assessment
Status Date: 12/06/2007

Global Id: T0600158364
Status: Completed - Case Closed
Status Date: 10/01/2009

CORTESE:
Name: DUNITZ & STERN
Address: 3050 TEAGARDEN
City,State,Zip: SAN LEANDRO, CA 94577
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600158364
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

CERS:
Name: DUNITZ & STERN
Address: 3050 TEAGARDEN
City,State,Zip: SAN LEANDRO, CA 94577
Site ID: 202302
CERS ID: T0600158364
CERS Description: Leaking Underground Storage Tank Cleanup Site

S127 **SINGER FRIDEN** **RESPONSE** **S101272670**
NNW **2350 AND 2450 WASHINGTON AVENUE** **ENVIROSTOR** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94577** **HIST Cal-Sites**
0.469 mi. **Cortese**
2475 ft. **Site 1 of 3 in cluster S** **HIST CORTESE**
CERS

Relative:
Higher

Actual:
52 ft.

RESPONSE:

Name:	SINGER FRIDEN
Address:	2350 AND 2450 WASHINGTON AVENUE
City,State,Zip:	SAN LEANDRO, CA 94577
Facility ID:	01360094
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	20
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, RWQCB 2 - San Francisco Bay, CITY OF SAN LEANDRO
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Moises Carvalho
Supervisor:	John Karachewski
Division Branch:	Cleanup Berkeley
Site Code:	200251
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	18
Senate:	09
Special Program Status:	Not reported
Status:	Certified / Operation & Maintenance
Status Date:	04/28/2003
Restricted Use:	NO
Funding:	Orphan Funds
Latitude:	37.71594
Longitude:	-122.1486
APN:	0397-161-49, 077 055609200, 077 063000100, 077 063000500, 077 063000600, 077 063000700, 077 063000800, 077 063000900, 077 063004800, 077 063004900, 077 063005000, 077 063005100, 077 063005200, 077 063005300, 077 063005400, 077 063005500, 077 063005600, 077 063005700, 077 063005800, 077 063005900, 077 063006000, 077 063006100, 077 063006200, 077 063006300, 077 063006400, 077 063006500, 077 063006600, 077 063006700, 077 063006800, 077 063006900, 077 063007000, 077 063007100, 077 063007200, 077 063007300, 077 063007400, 077 063007500, 077 063007600, 077 063007700, 077 063007800, 077 063007900, 077 063008000, 077 063008100, 077 063008200, 077 063008300, 077 063008400, 077 063008500, 077 063008600, 077 063008700, 077 063008800, 077 063009000, 077 063009100, 077 063009200, 077 063009300, 077 063009400, 077 063009500, 077 063009600, 077 063009700, 077 063009800, 077 063009900, 077 063011400, 077 063011800, 077 063012700, 077 063013600, 077 063013700, 077 063014700, 077D141002500, 77-556-100, 77-556-101, 77-556-102, 77-556-103, 77-556-104, 77-556-105, 77-556-106, 77-556-107, 77-556-108, 77-556-109, 77-556-110, 77-556-111, 77-556-112, 77-556-113, 77-556-114, 77-556-72, 77-556-73, 77-556-74, 77-556-75, 77-556-76, 77-556-77, 77-556-78, 77-556-79, 77-556-80, 77-556-81, 77-556-81, 77-556-82, 77-556-83, 77-556-84, 77-556-85, 77-556-86, 77-556-87, 77-556-88, 77-556-89, 77-556-90, 77-556-91, 77-556-93, 77-556-94, 77-556-95, 77-556-96, 77-556-97, 77-556-98, 77-556-99, 77-630-10, 77-630-100, 77-630-101, 77-630-102, 77-630-103, 77-630-104, 77-630-105, 77-630-106, 77-630-107, 77-630-108, 77-630-109, 77-630-11, 77-630-110, 77-630-111, 77-630-112,

SINGER FRIDEN (Continued) **S101272670**

77-630-113, 77-630-115, 77-630-116, 77-630-117, 77-630-119, 77-630-12, 77-630-120, 77-630-121, 77-630-122, 77-630-123, 77-630-124, 77-630-125, 77-630-126, 77-630-128, 77-630-129, 77-630-13, 77-630-130, 77-630-131, 77-630-132, 77-630-133, 77-630-134, 77-630-135, 77-630-138, 77-630-139, 77-630-14, 77-630-140, 77-630-141, 77-630-142, 77-630-143, 77-630-144, 77-630-145, 77-630-146, 77-630-146, 77-630-148, 77-630-149, 77-630-15, 77-630-150, 77-630-151, 77-630-16, 77-630-17, 77-630-18, 77-630-19, 77-630-2, 77-630-20, 77-630-21, 77-630-22, 77-630-23, 77-630-24, 77-630-25, 77-630-26, 77-630-27, 77-630-28, 77-630-29, 77-630-3, 77-630-30, 77-630-30, 77-630-31, 77-630-32, 77-630-33, 77-630-34, 77-630-35, 77-630-36, 77-630-37, 77-630-38, 77-630-39, 77-630-4, 77-630-40, 77-630-41, 77-630-42, 77-630-43, 77-630-44, 77-630-45, 77-630-46, 77-630-47, 77-630-48, 77-630-49, 77-630-5, 77-630-50, 77-630-51, 77-630-52, 77-630-53, 77-630-54, 77-630-55, 77-630-56, 77-630-57, 77-630-58, 77-630-59, 77-630-6, 77-630-60, 77-630-61, 77-630-62, 77-630-63, 77-630-64, 77-630-65, 77-630-66, 77-630-67, 77-630-68, 77-630-69, 77-630-7, 77-630-70, 77-630-71, 77-630-72, 77-630-73, 77-630-74, 77-630-75, 77-630-76, 77-630-77, 77-630-78, 77-630-79, 77-630-8, 77-630-80, 77-630-81, 77-630-82, 77-630-83, 77-630-84, 77-630-85, 77-630-86, 77-630-87, 77-630-88, 77-630-89, 77-630-9, 77-630-90, 77-630-91, 77-630-92, 77-630-93, 77-630-94, 77-630-95, 77-630-96, 77-630-97, 77-630-98, 77-630-99, 77D-1410-25

Past Use: MANUFACTURING - INDUSTRIAL MACHINERY
Potential COC : Tetrachloroethylene (PCE Trichloroethylene (TCE Chloroform 1,2-Dichloroethylene (cis
Confirmed COC: Tetrachloroethylene (PCE Trichloroethylene (TCE Chloroform 1,2-Dichloroethylene (cis
Potential Description: OTH, SOIL, SV
Alias Name: FRIDEN INC
Alias Type: Alternate Name
Alias Name: SANDPIPER CONDOS
Alias Type: Alternate Name
Alias Name: SINGER CO
Alias Type: Alternate Name
Alias Name: STAEFA CONTROL SYSTEM
Alias Type: Alternate Name
Alias Name: UNIVERSAL PNEUMATIC CONTROLS
Alias Type: Alternate Name
Alias Name: WILLIAM MATHEWS BUILDING
Alias Type: Alternate Name
Alias Name: 0397-161-49
Alias Type: APN
Alias Name: 077 055609200
Alias Type: APN
Alias Name: 077 063000100
Alias Type: APN
Alias Name: 077 063000500
Alias Type: APN
Alias Name: 077 063000600
Alias Type: APN
Alias Name: 077 063000700
Alias Type: APN
Alias Name: 077 063000800
Alias Type: APN
Alias Name: 077 063000900

SINGER FRIDEN (Continued) **S101272670**

Alias Type:	APN
Alias Name:	077 063004800
Alias Type:	APN
Alias Name:	077 063004900
Alias Type:	APN
Alias Name:	077 063005000
Alias Type:	APN
Alias Name:	077 063005100
Alias Type:	APN
Alias Name:	077 063005200
Alias Type:	APN
Alias Name:	077 063005300
Alias Type:	APN
Alias Name:	077 063005400
Alias Type:	APN
Alias Name:	077 063005500
Alias Type:	APN
Alias Name:	077 063005600
Alias Type:	APN
Alias Name:	077 063005700
Alias Type:	APN
Alias Name:	077 063005800
Alias Type:	APN
Alias Name:	077 063005900
Alias Type:	APN
Alias Name:	077 063006000
Alias Type:	APN
Alias Name:	077 063006100
Alias Type:	APN
Alias Name:	077 063006200
Alias Type:	APN
Alias Name:	077 063006300
Alias Type:	APN
Alias Name:	077 063006400
Alias Type:	APN
Alias Name:	077 063006500
Alias Type:	APN
Alias Name:	077 063006600
Alias Type:	APN
Alias Name:	077 063006700
Alias Type:	APN
Alias Name:	077 063006800
Alias Type:	APN
Alias Name:	077 063006900
Alias Type:	APN
Alias Name:	077 063007000
Alias Type:	APN
Alias Name:	077 063007100
Alias Type:	APN
Alias Name:	077 063007200
Alias Type:	APN
Alias Name:	077 063007300
Alias Type:	APN
Alias Name:	077 063007400
Alias Type:	APN
Alias Name:	077 063007500
Alias Type:	APN

SINGER FRIDEN (Continued) **S101272670**

Alias Name:	077 063007600
Alias Type:	APN
Alias Name:	077 063007700
Alias Type:	APN
Alias Name:	077 063007800
Alias Type:	APN
Alias Name:	077 063007900
Alias Type:	APN
Alias Name:	077 063008000
Alias Type:	APN
Alias Name:	077 063008100
Alias Type:	APN
Alias Name:	077 063008200
Alias Type:	APN
Alias Name:	077 063008300
Alias Type:	APN
Alias Name:	077 063008400
Alias Type:	APN
Alias Name:	077 063008500
Alias Type:	APN
Alias Name:	077 063008600
Alias Type:	APN
Alias Name:	077 063008700
Alias Type:	APN
Alias Name:	077 063008800
Alias Type:	APN
Alias Name:	077 063009000
Alias Type:	APN
Alias Name:	077 063009100
Alias Type:	APN
Alias Name:	077 063009200
Alias Type:	APN
Alias Name:	077 063009300
Alias Type:	APN
Alias Name:	077 063009400
Alias Type:	APN
Alias Name:	077 063009500
Alias Type:	APN
Alias Name:	077 063009600
Alias Type:	APN
Alias Name:	077 063009700
Alias Type:	APN
Alias Name:	077 063009800
Alias Type:	APN
Alias Name:	077 063009900
Alias Type:	APN
Alias Name:	077 063011400
Alias Type:	APN
Alias Name:	077 063011800
Alias Type:	APN
Alias Name:	077 063012700
Alias Type:	APN
Alias Name:	077 063013600
Alias Type:	APN
Alias Name:	077 063013700
Alias Type:	APN
Alias Name:	077 063014700

SINGER FRIDEN (Continued) **S101272670**

Alias Type:	APN
Alias Name:	077D141002500
Alias Type:	APN
Alias Name:	77-556-100
Alias Type:	APN
Alias Name:	77-556-101
Alias Type:	APN
Alias Name:	77-556-102
Alias Type:	APN
Alias Name:	77-556-103
Alias Type:	APN
Alias Name:	77-556-104
Alias Type:	APN
Alias Name:	77-556-105
Alias Type:	APN
Alias Name:	77-556-106
Alias Type:	APN
Alias Name:	77-556-107
Alias Type:	APN
Alias Name:	77-556-108
Alias Type:	APN
Alias Name:	77-556-109
Alias Type:	APN
Alias Name:	77-556-110
Alias Type:	APN
Alias Name:	77-556-111
Alias Type:	APN
Alias Name:	77-556-112
Alias Type:	APN
Alias Name:	77-556-113
Alias Type:	APN
Alias Name:	77-556-114
Alias Type:	APN
Alias Name:	77-556-72
Alias Type:	APN
Alias Name:	77-556-73
Alias Type:	APN
Alias Name:	77-556-74
Alias Type:	APN
Alias Name:	77-556-75
Alias Type:	APN
Alias Name:	77-556-76
Alias Type:	APN
Alias Name:	77-556-77
Alias Type:	APN
Alias Name:	77-556-78
Alias Type:	APN
Alias Name:	77-556-79
Alias Type:	APN
Alias Name:	77-556-80
Alias Type:	APN
Alias Name:	77-556-81
Alias Type:	APN
Alias Name:	77-556-81
Alias Type:	APN
Alias Name:	77-556-82
Alias Type:	APN

SINGER FRIDEN (Continued) **S101272670**

Alias Name:	77-556-83
Alias Type:	APN
Alias Name:	77-556-84
Alias Type:	APN
Alias Name:	77-556-85
Alias Type:	APN
Alias Name:	77-556-86
Alias Type:	APN
Alias Name:	77-556-87
Alias Type:	APN
Alias Name:	77-556-88
Alias Type:	APN
Alias Name:	77-556-89
Alias Type:	APN
Alias Name:	77-556-90
Alias Type:	APN
Alias Name:	77-556-91
Alias Type:	APN
Alias Name:	77-556-93
Alias Type:	APN
Alias Name:	77-556-94
Alias Type:	APN
Alias Name:	77-556-95
Alias Type:	APN
Alias Name:	77-556-96
Alias Type:	APN
Alias Name:	77-556-97
Alias Type:	APN
Alias Name:	77-556-98
Alias Type:	APN
Alias Name:	77-556-99
Alias Type:	APN
Alias Name:	77-630-10
Alias Type:	APN
Alias Name:	77-630-100
Alias Type:	APN
Alias Name:	77-630-101
Alias Type:	APN
Alias Name:	77-630-102
Alias Type:	APN
Alias Name:	77-630-103
Alias Type:	APN
Alias Name:	77-630-104
Alias Type:	APN
Alias Name:	77-630-105
Alias Type:	APN
Alias Name:	77-630-106
Alias Type:	APN
Alias Name:	77-630-107
Alias Type:	APN
Alias Name:	77-630-108
Alias Type:	APN
Alias Name:	77-630-109
Alias Type:	APN
Alias Name:	77-630-11
Alias Type:	APN
Alias Name:	77-630-110

SINGER FRIDEN (Continued) **S101272670**

Alias Type:	APN
Alias Name:	77-630-111
Alias Type:	APN
Alias Name:	77-630-112
Alias Type:	APN
Alias Name:	77-630-113
Alias Type:	APN
Alias Name:	77-630-115
Alias Type:	APN
Alias Name:	77-630-116
Alias Type:	APN
Alias Name:	77-630-117
Alias Type:	APN
Alias Name:	77-630-119
Alias Type:	APN
Alias Name:	77-630-12
Alias Type:	APN
Alias Name:	77-630-120
Alias Type:	APN
Alias Name:	77-630-121
Alias Type:	APN
Alias Name:	77-630-122
Alias Type:	APN
Alias Name:	77-630-123
Alias Type:	APN
Alias Name:	77-630-124
Alias Type:	APN
Alias Name:	77-630-125
Alias Type:	APN
Alias Name:	77-630-126
Alias Type:	APN
Alias Name:	77-630-128
Alias Type:	APN
Alias Name:	77-630-129
Alias Type:	APN
Alias Name:	77-630-13
Alias Type:	APN
Alias Name:	77-630-130
Alias Type:	APN
Alias Name:	77-630-131
Alias Type:	APN
Alias Name:	77-630-132
Alias Type:	APN
Alias Name:	77-630-133
Alias Type:	APN
Alias Name:	77-630-134
Alias Type:	APN
Alias Name:	77-630-135
Alias Type:	APN
Alias Name:	77-630-138
Alias Type:	APN
Alias Name:	77-630-139
Alias Type:	APN
Alias Name:	77-630-14
Alias Type:	APN
Alias Name:	77-630-140
Alias Type:	APN

SINGER FRIDEN (Continued) **S101272670**

Alias Name:	77-630-141
Alias Type:	APN
Alias Name:	77-630-142
Alias Type:	APN
Alias Name:	77-630-143
Alias Type:	APN
Alias Name:	77-630-144
Alias Type:	APN
Alias Name:	77-630-145
Alias Type:	APN
Alias Name:	77-630-146
Alias Type:	APN
Alias Name:	77-630-146
Alias Type:	APN
Alias Name:	77-630-148
Alias Type:	APN
Alias Name:	77-630-149
Alias Type:	APN
Alias Name:	77-630-15
Alias Type:	APN
Alias Name:	77-630-150
Alias Type:	APN
Alias Name:	77-630-151
Alias Type:	APN
Alias Name:	77-630-16
Alias Type:	APN
Alias Name:	77-630-17
Alias Type:	APN
Alias Name:	77-630-18
Alias Type:	APN
Alias Name:	77-630-19
Alias Type:	APN
Alias Name:	77-630-2
Alias Type:	APN
Alias Name:	77-630-20
Alias Type:	APN
Alias Name:	77-630-21
Alias Type:	APN
Alias Name:	77-630-22
Alias Type:	APN
Alias Name:	77-630-23
Alias Type:	APN
Alias Name:	77-630-24
Alias Type:	APN
Alias Name:	77-630-25
Alias Type:	APN
Alias Name:	77-630-26
Alias Type:	APN
Alias Name:	77-630-27
Alias Type:	APN
Alias Name:	77-630-28
Alias Type:	APN
Alias Name:	77-630-29
Alias Type:	APN
Alias Name:	77-630-3
Alias Type:	APN
Alias Name:	77-630-30

SINGER FRIDEN (Continued) **S101272670**

Alias Type:	APN
Alias Name:	77-630-30
Alias Type:	APN
Alias Name:	77-630-31
Alias Type:	APN
Alias Name:	77-630-32
Alias Type:	APN
Alias Name:	77-630-33
Alias Type:	APN
Alias Name:	77-630-34
Alias Type:	APN
Alias Name:	77-630-35
Alias Type:	APN
Alias Name:	77-630-36
Alias Type:	APN
Alias Name:	77-630-37
Alias Type:	APN
Alias Name:	77-630-38
Alias Type:	APN
Alias Name:	77-630-39
Alias Type:	APN
Alias Name:	77-630-4
Alias Type:	APN
Alias Name:	77-630-40
Alias Type:	APN
Alias Name:	77-630-41
Alias Type:	APN
Alias Name:	77-630-42
Alias Type:	APN
Alias Name:	77-630-43
Alias Type:	APN
Alias Name:	77-630-44
Alias Type:	APN
Alias Name:	77-630-45
Alias Type:	APN
Alias Name:	77-630-46
Alias Type:	APN
Alias Name:	77-630-47
Alias Type:	APN
Alias Name:	77-630-48
Alias Type:	APN
Alias Name:	77-630-49
Alias Type:	APN
Alias Name:	77-630-5
Alias Type:	APN
Alias Name:	77-630-50
Alias Type:	APN
Alias Name:	77-630-51
Alias Type:	APN
Alias Name:	77-630-52
Alias Type:	APN
Alias Name:	77-630-53
Alias Type:	APN
Alias Name:	77-630-54
Alias Type:	APN
Alias Name:	77-630-55
Alias Type:	APN

SINGER FRIDEN (Continued) **S101272670**

Alias Name:	77-630-56
Alias Type:	APN
Alias Name:	77-630-57
Alias Type:	APN
Alias Name:	77-630-58
Alias Type:	APN
Alias Name:	77-630-59
Alias Type:	APN
Alias Name:	77-630-6
Alias Type:	APN
Alias Name:	77-630-60
Alias Type:	APN
Alias Name:	77-630-61
Alias Type:	APN
Alias Name:	77-630-62
Alias Type:	APN
Alias Name:	77-630-63
Alias Type:	APN
Alias Name:	77-630-64
Alias Type:	APN
Alias Name:	77-630-65
Alias Type:	APN
Alias Name:	77-630-66
Alias Type:	APN
Alias Name:	77-630-67
Alias Type:	APN
Alias Name:	77-630-68
Alias Type:	APN
Alias Name:	77-630-69
Alias Type:	APN
Alias Name:	77-630-7
Alias Type:	APN
Alias Name:	77-630-70
Alias Type:	APN
Alias Name:	77-630-71
Alias Type:	APN
Alias Name:	77-630-72
Alias Type:	APN
Alias Name:	77-630-73
Alias Type:	APN
Alias Name:	77-630-74
Alias Type:	APN
Alias Name:	77-630-75
Alias Type:	APN
Alias Name:	77-630-76
Alias Type:	APN
Alias Name:	77-630-77
Alias Type:	APN
Alias Name:	77-630-78
Alias Type:	APN
Alias Name:	77-630-79
Alias Type:	APN
Alias Name:	77-630-8
Alias Type:	APN
Alias Name:	77-630-80
Alias Type:	APN
Alias Name:	77-630-81

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Alias Type:	APN
Alias Name:	77-630-82
Alias Type:	APN
Alias Name:	77-630-83
Alias Type:	APN
Alias Name:	77-630-84
Alias Type:	APN
Alias Name:	77-630-85
Alias Type:	APN
Alias Name:	77-630-86
Alias Type:	APN
Alias Name:	77-630-87
Alias Type:	APN
Alias Name:	77-630-88
Alias Type:	APN
Alias Name:	77-630-89
Alias Type:	APN
Alias Name:	77-630-9
Alias Type:	APN
Alias Name:	77-630-90
Alias Type:	APN
Alias Name:	77-630-91
Alias Type:	APN
Alias Name:	77-630-92
Alias Type:	APN
Alias Name:	77-630-93
Alias Type:	APN
Alias Name:	77-630-94
Alias Type:	APN
Alias Name:	77-630-95
Alias Type:	APN
Alias Name:	77-630-96
Alias Type:	APN
Alias Name:	77-630-97
Alias Type:	APN
Alias Name:	77-630-98
Alias Type:	APN
Alias Name:	77-630-99
Alias Type:	APN
Alias Name:	77D-1410-25
Alias Type:	APN
Alias Name:	110033609290
Alias Type:	EPA (FRS #)
Alias Name:	P23070
Alias Type:	PCode
Alias Name:	200251
Alias Type:	Project Code (Site Code)
Alias Name:	01360094
Alias Type:	Envirostor ID Number
Alias Name:	01990002
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	06/13/2006
Comments:	Five-Year Review determined that treatment system is capturing

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highest groundwater VOCs and has significantly reduced VOCs but concentration trends are leveling off.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/13/2003
Comments: Completed PEA for 2450 Washington Avenue. No Further Action letter issued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/23/2001
Comments: Completed RA. Startup Report approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 01/26/1998
Comments: Offsite conveyance design and revised treatment facility design completed based on 200 gpm flow rate.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 10/15/1996
Comments: Approved RAP. Final Remedy includes shallow groundwater extraction in "hot spot" areas and treatment using granular activiated carbon. Treatment system will be located outside of the condominium complex.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 09/06/1995
Comments: Completed RIFS for shallow groundwater which found PCE and TCE at elevated concentrations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/12/1992
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 08/30/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/28/1991
Comments: RI report indicates shallow groundwater has significant VOC contamination, soil samples do not show high levels of contaminants, and soil vapor samples have elevated concentrations of VOCs and

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ambient air quality samples showed similar values to the background levels in San Leandro.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 02/28/1991
Comments: A briefing package has been prepared and a public meeting was held to present groundwater, soil and air quality testing that was conducted at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 10/03/1988
Comments: Preliminary Assessment evaluated the chemicals used at the Singer Friden plant, waste collection systems at the plant and potential migration pathways of chemicals from the plant.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/01/2005
Comments: The treatment system removed an estimated 6.97 pounds of VOCs, and discharged 5,742,300 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 010
Completed Document Type: Monitoring Report
Completed Date: 12/23/2019
Comments: Air sampling report letter summarizes indoor air samples results collect at Unit 010 in October 2019.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 004
Completed Document Type: Monitoring Report
Completed Date: 12/23/2019
Comments: Air sampling report letter summarizes air samples results collect at Unit 004 in October 2019.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 001
Completed Document Type: Monitoring Report
Completed Date: 12/23/2019
Comments: Air sampling report letter summarizes air samples results collect at Unit 001 in October 2019.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 007
Completed Document Type: Monitoring Report
Completed Date: 12/23/2019
Comments: Air sampling report letter summarizes air samples results collect at Unit 007 in October 2019.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 011

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Completed Document Type: Monitoring Report
Completed Date: 12/23/2019
Comments: Air sampling report letter summarizes indoor air samples results collect at Unit 011 in September 2019.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 012
Completed Document Type: Monitoring Report
Completed Date: 12/23/2019
Comments: Air sampling report letter summarizes indoor air samples results collect at Unit 012 in September 2019.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 013
Completed Document Type: Monitoring Report
Completed Date: 12/23/2019
Comments: Air sampling report letter summarizes indoor air samples results collect at Unit 013 in September 2019.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 02/19/2020
Comments: Postcard sent to local community informing about a Community Update Workshop that will be held at local community center on February 29, 2020.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 02/21/2020
Comments: A community update workshop will be held at local community center on February 29, 2020. DTSC will discuss the following: August 2019 soil gas investigation and September/October 2019 indoor air testing results of certain residences; Future indoor air quality testing and steps that local residents can take to maintain personal and environmental health.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 011
Completed Document Type: Technical Report
Completed Date: 04/07/2020
Comments: Unit 011 Foundation Inspection Report summarizes the visual inspection of the concrete slab foundation performed on February 7, 2019, at Unit 011 within the Sandpiper Townhouse Complex at the Former Singer Friden Facility.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 012
Completed Document Type: Technical Report
Completed Date: 04/07/2020
Comments: Unit 012 Foundation Inspection Report summarizes the visual inspection of the concrete slab foundation performed on February 7, 2019, at Unit 012 within the Sandpiper Townhouse Complex at the Former Singer Friden Facility.

Completed Area Name: PROJECT WIDE

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Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/08/2020
Comments: Five (5) junction box vaults welded on September 2020 Two (2) within the Sandpiper Townhome Complex s streets, one (1) just outside the Washington Avenue access gate to the complex, and two (2) along Washington Avenue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan
Completed Date: 12/04/2020
Comments: Site-Specific Protection Plan (SPP) provides instructions to field staff on how to implement Alameda County Shelter in Place Order and Face Coverings Order. SSP includes COVID-19 precautionary measures by informing (i) individual control measures and screenings; (ii) cleaning and disinfecting protocols; (iii) schedule for disinfecting high traffic areas and commonly used surfaces; (iv) physical distancing guidelines; (v) notification requirements of COVID-19 positive case and (vi) training requirements.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan
Completed Date: 12/16/2020
Comments: Singer Friden Covid-19 Plan for SSDS O&M Plan (COVID-19 H&S Plan) provides sufficient information to meet State of California Executive Order N 33-20, Alameda County Order of the Health Officer No. 20-21 requirements and the minimum requirements listed on the DTSC COVID-19 Contractor Plan Reviews, version 1.0.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 03/06/2021
Comments: Fact Sheet informs the Sandpiper community about the status of environmental investigations planned at the former Singer Friden facility (Site) The Site is currently in the operation and maintenance phase of work. Supplemental environmental investigations are planned and necessary to help the DTSC better evaluate the implementation of additional cleanup measures at the Site. When implemented, additional cleanup measures will stop or reduce vapor intrusion of chemicals coming from soil and groundwater at the Site. These measures will improve indoor air quality of residences and protect human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 06/10/2020
Comments: First and Second Five-Year Review Reports Revised Update Fact Sheet provides a status of environmental cleanup efforts conducted at the former Singer Friden facility (Site) from March 2001 to May 2012. The Site is currently in the operation and maintenance phase of work, which requires DTSC to review available data every five years. The purpose of a Five-Year Review is to evaluate the implementation and performance of a remedy to determine if it is or will be protective

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of human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 06/10/2020
Comments: Third Five-Year Review Report Fact Sheet provides a status update of environmental cleanup efforts conducted at the former Singer Friden facility (Site) from June 2012 to July 2018. The Site is currently in the operation and maintenance phase of work, which requires DTSC to review available data every five years. The purpose of a Five-Year Review is to evaluate the implementation and performance of a remedy to determine if it is or will be protective of human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 02/26/2020
Comments: Fact Sheet hand delivered to Sandpiper community during the Community Update Workshop Meeting held on February 29, 2020

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/26/2020
Comments: Groundwater monitoring fieldwork activities and COVID-19 precautionary measures implemented as planned.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 03/18/2021
Comments: Work Plan outlines the tasks to be performed during installation of three double-nested groundwater monitoring wells and one triple-nested soil gas monitoring well at the former Singer Friden Facility (Site). The project objective is to expand the Site s monitoring well network to further evaluate the nature and extent of volatile organic compounds (VOCs) in groundwater, soil, and soil gas throughout the Site. The Work Plan only discusses groundwater monitoring well installation. Installation of soil gas monitoring wells is described in the Site s soil gas investigation work plan (Soil Gas Investigation Work Plan, Sandpiper Townhome Complex, Former Singer Friden Facility, 2350/2450 Washington Avenue, San Leandro, California. July 2019).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/05/2020
Comments: Supplemental Groundwater Monitoring Well Location Evaluation Report (Report) provides construction design recommendations to install three dual completion groundwater monitoring well at three distinct locations at the site. Construction design recommendations are based on August/September 2019 soil gas sampling results which indicated the presence of volatile organic compounds in areas where groundwater has not been routinely monitored.

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Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Initial Study/ Neg. Declaration
Completed Date:	10/15/1996
Comments:	Initial Study and Negative Declaration Approved.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	04/28/2003
Comments:	Certified Site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	07/17/1992
Comments:	Re-issued I&SE Determination and Order to Bicoastal.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	05/22/1991
Comments:	Issued I&SE Determination and Order to the site developers (known as the Citation entities) and owners of office building (Wm. Mathews, Inc.).

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	04/01/1988
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Consent Decree
Completed Date:	11/18/1996
Comments:	Cost Settlement with the Citation entities. Citation will pay DTSC $4,000,000 to cover all past and future liability for this Site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Consent Settlement - Administrative
Completed Date:	02/23/1993
Comments:	Cost Settlement in US Bankruptcy Court regarding Bicoastal Corp. (dba Simuflite fka The Singer Company) Case No. 89-8191-BKC-8P1. DTSC receives $2,500,000. $2,250,000 applied to the Singer Friden Site and $250,000 to 3176 Porter Drive in Palo Alto. Settlement also addressed claims of the Dundee Homeowners Assoc. DTSC and Dundee also settled their claims against each other, as well as future access to the property by DTSC.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Work Order
Completed Date:	08/18/2009
Comments:	Work Order 1 was amended to include additional Tasks.

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Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 03/29/2010
Comments: Contract 09-T9094

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 06/15/2010
Comments: CFA approved for $200,000.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 06/29/2010
Comments: ERRG contract fullt executed for $200,000 from July 1, 2010 to June 30, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 12/18/2002
Comments: Work Order for O&M

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 03/29/2010
Comments: contract fully executed for $5,000 to June 30, 2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 06/15/2011
Comments: Contract extended till June 30, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 04/05/2010
Comments: Contract with URS Corporation (URS) to provide personnel, services, materials and equipment necessary to prepare to prepare the final report for the in-situ pilot study conducted in 2008 for the Singer Friden site

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 07/06/2007
Comments: Amendment

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 07/12/2005
Comments: Amendment #3

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Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 12/16/2008
Comments: Contract for Pilot Study

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 12/18/2008
Comments: Work Order for Pilot Study

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/17/2002
Comments: Amendment #3

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 03/21/2002
Comments: Amendment #2

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 07/16/2003
Comments: Amendmemt #1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/20/2004
Comments: Annual letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/17/2004
Comments: Amendment #2

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/30/2010
Comments: ERRG Work Order completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/22/2011
Comments: Work Order amendment extending work through June 30, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)

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Completed Date: 12/10/2010
Comments: CFA Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 01/31/2011
Comments: Work order issued for Pilot Study.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 07/07/2005
Comments: Work Order to conduct soil gas sampling

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 01/25/2006
Comments: Amendment #4

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/16/2006
Comments: Annual expenditure letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 05/04/2006
Comments: Work Order for O&M

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 10/07/1998
Comments: Start Work Order

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 12/20/1999
Comments: Start Work Order

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 12/02/1999
Comments: Work Order Amendment

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 01/08/2007
Comments: Contract for Pilot Study

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Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 01/11/2007
Comments: Work Order for Pilot Study

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 01/26/2011
Comments: URS contract to conduct pilot study is fully executed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Responsible Agency Review
Completed Date: 10/25/2011
Comments: Comment letter sent to City of San Leandro.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 07/21/2010
Comments: Consent letter completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 03/16/2001
Comments: Amendment

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 06/27/2012
Comments: CFA amendment to extend the contract until June 30, 2013 approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 06/29/2012
Comments: ERRG contract amendment fully executed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/29/2012
Comments: Work order amendment to continue O&M completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/29/2012
Comments: Work order to conduct SVE pilot study was issued to URS.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)

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Completed Date: 06/03/2013
Comments: ERRG Master Service Agreement (MSA) 09-T9105

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 05/18/2012
Comments: CFA approved for URS SVE pilot study.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 06/26/2012
Comments: Contract to conduct soil vapor pilot study fully executed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 05/24/2011
Comments: CFA approved to continue O&M of groundwater treatment system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 07/24/2000
Comments: Task Order Amendment

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 04/19/2001
Comments: Amendment

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 05/15/2013
Comments: Work Order Amendment to prepare a conceptual design for a possible SVE system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 05/21/2013
Comments: Contract 11-T1105 A-1 Extension

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 07/07/2014
Comments: Work Order to continue Operation and Maintenance on the Groundwater Treatment System.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Access Agreement
Completed Date: 10/07/2014

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Comments:	Access agreements for two units signed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Access Agreement
Completed Date:	04/17/2014
Comments:	Letter to Homeowners sent out requesting volunteers for indoor air sampling along with information fact sheets.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date:	05/15/2014
Comments:	CFA 09-T9128 extension to January 1, 2015
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract
Completed Date:	05/29/2014
Comments:	Contract 09-T9128 WO1 A-4 establishes funds to continue O&M on the GWTS.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract
Completed Date:	04/16/2014
Comments:	Contract to conduct indoor air sampling fully executed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date:	03/13/2014
Comments:	Contract Fiscal Approval (CFA) 09 T9128 for indoor air sampling at the Singer Friden site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract
Completed Date:	08/14/2014
Comments:	Contract signed for ERRG to develop a demolition plan for the GWTS in case the property owner gives a 30 day vacate notice.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	04/27/2015
Comments:	Notification of Change in DTSC Project Manager
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date:	07/25/2014
Comments:	Contract Fiscal Approval (CFA) of Contract 13-T3826 for preparation of a workplan to demolish the groundwater extraction treatment system. Not reported
Completed Area Name:	PROJECT WIDE

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Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 01/07/2015
Comments: Work order amended to add winter sampling event.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 04/16/2015
Comments: Work order amendment to include certification of installation for sub-slab systems.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 11/06/2014
Comments: Work order authorizes continued operation of the groundwater extraction treatment system, groundwater monitoring, soil vapor monitoring, sub-slab installations at the Singer site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 04/07/2015
Comments: All tasks are complete under this contract.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 04/21/2015
Comments: Amendment to add 6 additional sub-slab systems.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 05/29/2015
Comments: Contract amendment for the installation of 6 sub-slab systems. Locations are to be determined.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 03/30/2015
Comments: Work order amendment to authorize installation of variable speed fan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 07/25/2014
Comments: Contract Fiscal Approval (CFA) of Contract 13-T3826 for demolishing the groundwater extraction treatment system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 11/04/2014
Comments: Contract 14-T3902 authorizes activities required to operate and

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maintain the groundwater extraction treatment system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 11/03/2015
Comments: Work order issued for sub-slab system installation, GWTS O&M and GWTS Demolition.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 10/22/2012
Comments: Soil Vapor Extraction Pilot Study Workplan describes extraction well placement and construction details. Sampling for Volatile Organic soil gas is included to prepare design of extraction system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 05/20/2013
Comments: Report documents the soil vapor extraction (SVE) pilot study conducted in November/December 2012. The purpose of the pilot study was to evaluate the effectiveness of SVE in one of the areas with the highest concentrations of chlorinated volatile organic compounds (VOCs) in soil gas; primarily, trichloroethene (TCE).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 08/22/2013
Comments: The update to the Public Participation Plan includes responses from community members and an updated mailing list.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/09/2012
Comments: August Monthly O and M Report 113,000 gallons treated this month.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/15/2012
Comments: System operated as required with 146, 000 gallons treated. Effluent limits were met.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/04/2012
Comments: 108,200 gallons of water were processed through the remediation system during the October 2012. They system was operated in compliance with the NPDES permit.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

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Completed Document Type: Operation and Maintenance Report
Completed Date: 12/20/2012
Comments: 97,900 gallons of water was processed through the remediation system during the November 2012 reporting period. All treated water met the NPDES permit limits.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/08/2013
Comments: The groundwater treatment system was operated in compliance with the NPDES permit and met all effluent limitations. 84,100 gallons were treated in December 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/26/2013
Comments: The Groundwater Treatment system treated 64,700 gallons for the month of January 2013 and no breakthrough was observed. VVOC samples were Non-detect in the effluent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/02/2013
Comments: Groundwater Extraction system operated within normal range, 60,000 gasllons were treated in February.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/02/2013
Comments: 111,000 gallons treated this month.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/03/2013
Comments: System is shut down due to problems with the liquid granulated carbon gauge.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/02/2013
Comments: GWTS operating at minimal flows, in compliance with NPDES permit.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/15/2013
Comments: 62,320 gallons of water was processed through the remediation system during the June 2013 reporting period from June 4 to June 28, 2013

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

SINGER FRIDEN (Continued) **S101272670**

Completed Document Type: Operation and Maintenance Report
Completed Date: 05/17/2013
Comments: The groundwater treatment system operated in compliance with the NPDES permit and treated 236,000 gallons this quarter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/19/2013
Comments: GWTS is operating in compliance with the NPDES permit. VOC concentrations remain near 100 ppb in the influent and non-detect in the effluent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/05/2012
Comments: All fieldwork completed, site returned to previous condition.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 08/27/2014
Comments: Public Notice informing Sandpiper Townhome Complex community about meeting to be held on August 20, 2014, to explain the results of the indoor air sampling, proposed next steps in addressing this issue and answering questions from the public.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 10/26/2012
Comments: Work Notice was ditributed to all homeowners in the subdivision, posted and placed on the HOA website.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 09/16/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/29/2013
Comments: 109,500 gallons of water was treated during the July 2013 reporting period. The system operated in compliance with the NPDES permit.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/03/2013
Comments: Technical Memorandum summarizes the August 2013 soil vapor well sampling event at the Site. The work was conducted under Work Order No. 001 of Contract No. 09-T9128 A3. Soil vapor data continues to show trichloroethene concentrations up to 200 micrograms per liter in the investigated soil vapor monitoring wells.

SINGER FRIDEN (Continued) **S101272670**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/17/2013
Comments: August 2013 report indicates system shutdown on 8/10 due to power failure, ERRG responded 8/22. 56,900 gallons were treated in August 2013. Discharge was in compliance with the NPDES permit.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/01/2005
Comments: The treatment system removed an estimated 7.14 pounds of VOCs, and discharged 5,930,700 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/04/2005
Comments: 1,261,700 gallons of water was treated during July 2005.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/01/2005
Comments: 1,815,700 gallons of water was treated during May 2005.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/30/2005
Comments: 2,050,800 gallons of water was treated during May 2005.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 08/15/2005
Comments: The purpose of the Workplan is to evaluate the potential for migration of volatile organic compounds (VOCs) into the indoor air of residential units at the Site. This will be accomplished by taking soil gas samples from ten (10) locations across the Site. Following the implementation of the Workplan, a Five-Year Report will be prepared, which will summarize the soil gas sampling results and will evaluate the effectiveness of the Site groundwater treatment and monitoring system, including capture zone analysis and recommendations for future Site activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/11/2005
Comments: 902,589 gallons of water treated in August 2005.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan

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Completed Date: 09/01/1991
Comments: Public Participation Plan completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/22/2006
Comments: 274,700 gallons of water was treated during January 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/20/2005
Comments: 786,872 gallons of water was treated during September 2005.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/30/2005
Comments: 298,480 gallons of water was treated during October 2005.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 01/03/2006
Comments: 53,900 gallons of water was treated during November 2005.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/02/2006
Comments: 109,800 gallons of water was treated from November 31, 2005 to January 4, 2006

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/03/2006
Comments: 1,210,300 gallons of water was treated during February 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/11/2006
Comments: 1,369,700 gallons of water was treated during March 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/13/2006
Comments: 1,537,200 gallons of water was treated in April 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/03/2006
Comments: 1,537,200 gallons of water was treated in April 2006.

SINGER FRIDEN (Continued) **S101272670**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/08/2006
Comments: 833,700 gallons of water treated in June 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/29/2006
Comments: 1,028,500 gallons of water was treated in August 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/02/2006
Comments: 1,527,900 gallons of water was treated from August 25, 2006 to September 18, 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/04/2006
Comments: A total of 263,100 gallons of water was extracted and treated in October 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/20/2005
Comments: The treatment system removed an estimated 3.84 pounds of VOCs, and discharged 2,951,161 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/02/2006
Comments: The treatment system removed an estimated 19.01 pounds of VOCs, and discharged 15,346,500 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/11/2006
Comments: Total volume water treated during the first quarter was 2.8 million gallons. Estimated volatile organic compound (VOC) removal was 3.2 pounds.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/08/2006
Comments: The treatment system removed an estimated 4.04 pounds of VOCs, and discharged 4,527,200 gallons of treated groundwater into the San Leandro storm sewer system.

SINGER FRIDEN (Continued) **S101272670**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Manual
Completed Date: 08/01/2001
Comments: Operations and Maintenance Manual for groundwater extraction and treatment system completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Completion Report
Completed Date: 02/28/1996
Comments: 1 intermediate and 3 deep monitoring wells were installed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 02/28/1996
Comments: 5 extraction and 1 monitoring wells were installed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/28/1996
Comments: Conducted a step drawdown and constant discharge aquifer tests at extraction well EW-3.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/27/1996
Comments: During installation of the extraction and treatment system conveyance piping in December 1995, potentially contaminated soil was encountered adjacent to the excavation for the vault box in the intersection of Heathrow Place and Cornwall Way. During this removal action, 25 cubic yards of soil was removed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 09/01/1990
Comments: Fact Sheet announcing upcoming soil testing.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/02/2006
Comments: The treatment system removed an estimated 3.26 pounds of VOCs, and discharged 3,006,500 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/15/2007
Comments: The treatment system removed an estimated 13 pounds of VOCs, and discharged 12,273,600 gallons of treated groundwater into the San Leandro storm sewer system.

SINGER FRIDEN (Continued) **S101272670**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/27/2006
Comments: 450,100 gallons of water was treated during July 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 01/18/2007
Comments: A total of 1,166,800 gallons of water was treated from October 31, 2006 to November 29, 2006. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report was initiated.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/15/2007
Comments: A total of 1,514,300 gallons of water was treated from November 29, 2006. to December 28, 2006. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/22/2007
Comments: A total of 1,163,000 gallons of water was treated fromDecember 28, 2006 to January 30, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/05/2007
Comments: A total of 1,144,000 gallons of water was treated from January 31, 2007 to February 28, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/01/2007
Comments: A total of 2,380,800 gallons of water was treated from February 28, 2007 to March 26, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/01/2007
Comments: The treatment system removed an estimated 4.9 pounds of VOCs, and discharged 4,687,800 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report

SINGER FRIDEN (Continued) **S101272670**

Completed Date: 06/06/2007
Comments: A total of 2,006,300 gallons of water was treated from March 30, 2007 and April 30, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 02/01/1991
Comments: The fact sheet presents results of soil, groundwater and soil gas investigations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 09/01/1993
Comments: The Fact sheet announced 30 day comment period for Engineering Evaluation and Cost analysis Report and negative declaration which includes a proposed pump and treat system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/13/2006
Comments: Contract Master Service Agreement with Weiss Associates

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/16/2006
Comments: Contract Master Service Agreement with Engineering Remediation Resources Group

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/16/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 03/30/2007
Comments: The plan covers a proposed in-situ treatment process to address TCE contamination. This is only a pilot study at this time.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/06/2007
Comments: Injection of vegetable oil completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 07/02/2008
Comments: This pilot test indicates that biostimulation through emulsified oil

SINGER FRIDEN (Continued) **S101272670**

injections and bioaugmentation with Dehalococcoides ethenogenes culture KB-1TM can be an effective remedy for the reduction of VOCs at the Site. The pilot test results also suggest that biostimulation can be implemented at the Site without significantly increasing risks associated with VOC vapor intrusion.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/18/2006
Comments: Lease Extension Executed until February 28, 2013.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/12/2007
Comments: A total of 1,512,300 gallons of water was treated from April 30, 2007 to May 30, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/10/2007
Comments: A total of 1,038,400 gallons of water was treated from May 31, 2007 to June 30, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/04/2007
Comments: A total of 1,872,800 gallons of water was treated from June 20, 2007 to August 3, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/04/2007
Comments: A total of 929,500 gallons of water was treated from August 3, 2007 to September 4, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/19/2007
Comments: The treatment system removed an estimated 3.55 pounds of VOCs, and discharged 4,557,000 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/13/2004
Comments: California Regional Water Quality Control Board, San Francisco Bay

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Region, issued the authorization to discharge treated groundwater under the requirements of Order No. R2-2004-0055, NPDES Permit No. CAG912003 (VOC).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/07/2007
Comments: A total of 545,000 gallons of water was treated from September 5, 2007 to October 1, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/07/2007
Comments: The treatment system removed an estimated 5.56 pounds of VOCs, and discharged 3,347,800 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/04/2007
Comments: A total of 1,407,700 gallons of water was treated from October 2, 2007 to November 2, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/04/2008
Comments: A total of 1,057,600 gallons of water was treated from November 2, 2007 to December 3, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/04/2008
Comments: A total of 2,011,500 gallons of water was treated from December 4, 2007 to December 31, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/18/2007
Comments: Contract with Engineering Remediation Resources Group to repave the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/04/2008
Comments: In 2007, the treatment system removed an estimated 18 pounds of VOCs, and discharged 17,069,400 gallons of treated groundwater into the San

SINGER FRIDEN (Continued) **S101272670**

Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/03/2008
Comments: A total of 2,552,900 gallons of water was treated from January 1, 2008 to February 4, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/22/2008
Comments: A total of 1,095,700 gallons of water was treated from February 5, 2008 to February 28, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/02/2008
Comments: A total of 1,675,200 gallons of water was treated from March 1, 2008 to March 31, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/30/2008
Comments: A total of 312,580 gallons of water was treated from March 31, 2008 to April 28, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/07/2008
Comments: A total of 809,446 gallons of water was treated from April 28, 2008 to June 2, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/07/2008
Comments: A total of 774,100 gallons of water was treated from June 2, 2008 to June 27, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/03/2008
Comments: A total of 1,087,700 gallons of water was treated from June 27, 2008 to August 4, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

SINGER FRIDEN (Continued) **S101272670**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/30/2008
Comments: A total of 1,116,800 gallons of water was treated from August 4, 2008 to September 9, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/18/2008
Comments: A total of 1,186,800 gallons of water was treated from September 9, 2008 to September 26, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 12/01/2008
Comments: A total of 2,184,500 gallons of water was treated from September 26, 2008 to November 4, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 01/05/2009
Comments: A total of 1,406,000 gallons of water was treated from November 4, 2008 until November 26, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/26/2009
Comments: A total of 1,760,000 gallons of water was treated from November 26, 2008, until January 6, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/05/2008
Comments: The treatment system removed an estimated 4.5 pounds of VOCs, and discharged 5,323,800 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/12/2008
Comments: The treatment system removed an estimated 1.74 pounds of VOCs, and discharged 1,896,126 gallons of treated groundwater into the San Leandro storm sewer system.

SINGER FRIDEN (Continued) **S101272670**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	11/20/2008
Comments:	The treatment system removed an estimated 3.21 pounds of VOCs, and discharged 3,391,300 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	06/03/2008
Comments:	CFA approved.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	05/29/2008
Comments:	Issued work order to continue operation and maintenance of the treatment system.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Pilot Study/Treatability Workplan
Completed Date:	04/14/2009
Comments:	Workplan for in-situ oil and naturally occurring bacteria injections approved.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Pilot/Treatability Study Report
Completed Date:	08/31/2010
Comments:	Strong reductive dechlorination and microbial activity were present in groundwater west of the injection points.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	03/12/2009
Comments:	A total of 1,326,600 gallons of water was treated from January 6, 2009 to February 20, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	04/14/2009
Comments:	A total of 335,200 gallons of water was treated from February 20, 2009 until March 4, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	03/03/2009
Comments:	In 2008, the treatment system removed an estimated 13 pounds of VOCs, and discharged 15,961,726 gallons of treated groundwater into the San

SINGER FRIDEN (Continued) **S101272670**

Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/11/2009
Comments: A total of 694,700 gallons of water was treated by the system during the discharge period from March 4, 2009, until March 27, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/11/2009
Comments: The treatment system removed an estimated 2.091 pounds of VOCs, and discharged 2,356,500 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/17/2009
Comments: A total of 2,064,000 gallons of water was treated by the system during the discharge period from March 27, 2009 until April 29, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/06/2009
Comments: A total of 2,430,100 gallons of water was treated by the system during the discharge period from April 29, 2009 until June 9, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/21/2009
Comments: NPDES application was uploaded to Geotracker.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 05/18/2012
Comments: According to the data reviewed, the remedy is functioning as intended by the RAP; however, VOCs in the soil gas is not addressed with the current remedy, therefore additional assessment needs to be done to address the soil gas in the central portion of the Site. The GWTS has significantly reduced the VOC concentrations in the ground water; however the leveling off of VOC concentration trends in the past several years suggests that ground water extraction with the current system alone will take many years of operation to achieve MCLs at the Site, especially in the FGU-shallow. Enhanced in-situ bioremediation pilot studies were effective in reducing VOC concentrations in

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groundwater, therefore, targeted in-situ methods will be effective in reducing the areas of highest VOC concentration and monitored natural attenuation (MNA) can replace active remediation for eventual MCL attainment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 08/31/2012
Comments: Fact Sheet of the first and second Five-Year Review Reports. The first Five-Year Review was done in June 2006 while the second Five-Year Review was done in 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/06/2009
Comments: In-situ injections of emulsified oil and bacteria completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/14/2009
Comments: 2 wells on 2450 Washington Avenue was abandoned.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/18/2009
Comments: Tentative NPDES Permit was issued by water Board.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/04/2009
Comments: A total of 879,000 gallons of water was treated by the system during the discharge period from June 9, 2009 until June 22, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/06/2009
Comments: The treatment system removed an estimated 3.57 pounds of VOCs, and discharged 5,373,100 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/08/2009
Comments: A total of 2,691,500 gallons of water was treated by the system during the discharge period from June 22, 2009 until July 28, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

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Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	10/12/2009
Comments:	A total of 2,609,800 gallons of water was treated by the system during the discharge period from July 28, 2009 until August 31, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	11/04/2009
Comments:	A total of 1,925,500 gallons of water was treated by the system during the discharge period from August 31, 2009 until September 29, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	11/04/2009
Comments:	The treatment system removed an estimated 5.99 pounds of VOCs, and discharged 7,256,800 gallons of treated groundwater into the San Leandro storm sewer system.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	12/02/2009
Comments:	A total of 1,448,300 gallons of water was treated by the system during the discharge period from September 29, 2009 to October 27, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	12/31/2009
Comments:	A total of 238,600 gallons of water was treated by the system during the discharge period from October 27, 2009 to December 2, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	03/18/2010
Comments:	A total of 552,000 gallons of water was treated by the system during the discharge period from December 2, 2009 to January 5, 2010. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	04/05/2010

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Comments: A total of 2,236,000 gallons of water was treated by the system during the discharge period from February 2, 2010, to March 2, 2010. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/05/2010
Comments: A total of 934,700 gallons of water was treated by the system during the discharge period from January 5, 2010 and February 2, 2010. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/03/2010
Comments: A total of 2,217,400 gallons of water was treated by the system during the discharge period from March 2, 2010 to March 30, 2010. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/06/2010
Comments: A total of 2,919,500 gallons of water was treated by the system during the discharge period from March 30, 2010 to May 4, 2010. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/06/2010
Comments: A total of 1,828,900 gallons of water was treated by the system during the discharge period from May 4, 2010 to May 25,2010. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/18/2010
Comments: The treatment system removed an estimated 15.66 pounds of VOCs, and discharged 17,225,300 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/02/2010
Comments: The treatment system removed an estimated 4 pounds of VOCs, and discharged 5,388,100 gallons of treated groundwater into the San Leandro storm sewer system.

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Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/26/2010
Comments: The treatment system removed an estimated 5.6 lbs pounds of VOCs, and discharged 7,925,700 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/25/2009
Comments: Final NPDES Permit issued by Water Board.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/03/2009
Comments: Received the Notice of General Permit Coverage for Discharge from Water Board.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 07/19/2010
Comments: Addendum to O & M plan approved based on 5 year review recommendations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/26/2010
Comments: A total of 3,177,300 gallons of water was treated by the system during the discharge period from May 25,2010 to June 29, 2010. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report was completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/03/2010
Comments: A total of 1,940,600 gallons of water was treated by the system during the discharge period from June 29, 2010 to July 27, 2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/02/2010
Comments: A total of 3,290,500 gallons of water was treated by the system during the discharge period from July 27, 2010 to August 31, 2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/30/2010
Comments: A total of 2,376,200 gallons of water was treated by the system during the discharge period from August 31, 2010 to September 28,

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2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/07/2010
Comments: A total of 2,544,300 gallons of water was treated by the system during the discharge period from September 28, 2010, to October 26, 2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/24/2010
Comments: A total of 2,086,500 gallons of water was treated by the system during the discharge period from October 26, 2010, to November 30, 2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/08/2011
Comments: A total of 1,388,600 gallons of water was treated by the system during the discharge period from November 30, 2010 to January 3, 2011. Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/08/2011
Comments: A total of 690,200 gallons of water was treated by the system during the discharge period from January 3, 2011, to February 1, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/25/2011
Comments: A total of 1,061,600 gallons of water was treated by the system during the discharge period from February 1, 2011 to March 1, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/28/2011
Comments: A total of 1,370,400 gallons of water was treated by the system during the discharge period from March 1, 2011 to April 1, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/13/2011
Comments: A total of 1,438,100 gallons of water was treated by the system during the discharge period from April 1, 2011 to May 3, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report

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Completed Date: 08/09/2011
Comments: A total of 878,800 gallons of water was treated by the system during the discharge period from May 3, 2011 to May 24, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/09/2011
Comments: A total of 1,573,000 gallons of water was treated by the system during the discharge period from May 24, 2011 to June 30, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/30/2010
Comments: The treatment system removed an estimated 5.8 lbs pounds of VOCs, and discharged 7,607,300 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/15/2011
Comments: The total volume of treated water for the fourth quarter 2010 and during 2010 was 6,019,400 gallons and 26,940,500 gallons, respectively.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/07/2011
Comments: The total volume of treated water for the first quarter 2011 was 3,122,200 gallons.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/16/2011
Comments: The total volume of treated water for the second quarter 2011 was 3,889,900 gallons.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 06/13/2011
Comments: Workplan to conduct in-situ injections at 2 locations approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/30/2011
Comments: Injections completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 03/19/2012

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Comments: The effectiveness of the 3DMe injection pilot study and the extent and concentration of the contaminant plume near extraction wells EW-6 and EW-8 were evaluated over two post-injection quarterly groundwater monitoring events. Multiple lines of evidence of improved anaerobic or reducing conditions and degradation of chlorinated VOCs were noted. Continued groundwater monitoring will be required to assess ongoing performance.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 06/13/2011
Comments: Work Notice for In-situ injections at two locations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/07/2011
Comments: A total of 1,300,200 gallons of water was treated by the system during the discharge period from June 30, 2011 to August 2, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/31/2011
Comments: A total of 1,032,000 gallons of water was treated by the system during the discharge period from August 2, 2011 to August 31, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/09/2011
Comments: A total of 776,700 gallons of water was treated by the system during the discharge period from August 31, 2011 to October 3, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/18/2011
Comments: A total of 1,082,100 gallons of water was treated by the groundwater treatment system during the discharge period from October 3, 2011 to October 31, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 01/27/2012
Comments: A total of 1,125,700 gallons of water was treated by the groundwater treatment system during the discharge period from October 31, 2011 to November 29, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 01/27/2012
Comments: A total of 1,050,600 gallons of water was treated by the groundwater treatment system during the discharge period from November 29, 2011

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to January 3, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/05/2012
Comments: A total of 597,400 gallons of water was treated by the groundwater treatment system during the discharge period from January 3, 2012 to January 31, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/05/2012
Comments: A total of 691,300 gallons of water was treated by the groundwater treatment system during the discharge period from January 31, 2012, to February 27, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/24/2012
Comments: A total of 658,700 gallons of water was treated by the groundwater treatment system during the discharge period from February 27, 2012, to March 30, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/26/2012
Comments: A total of 747,100 gallons of water was treated by the groundwater treatment system during the discharge period from March 30, 2012, to May 1, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/19/2012
Comments: A total of 197,500 gallons of water was treated by the groundwater treatment system during the discharge period from May 1, 2012, to June 1, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/08/2012
Comments: 170,700 gallons of water was processed through the remediation system during the June 2012

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/05/2012
Comments: 165,700 gallons treated this reporting period.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

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Completed Document Type: Operation and Maintenance Report
Completed Date: 12/15/2011
Comments: The total volume of treated water for the third quarter 2011 was 3,108,900 gallons.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/16/2012
Comments: The total volume of treated water for the fourth quarter 2011 and during 2011 was 3,258,400 gallons and 13,379,400 gallons, respectively.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/24/2012
Comments: The total volume of treated water for the first quarter 2011 was 1,947,400 gallons.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/16/2012
Comments: 2nd Quarter 2012 NPDES and GWM Reports

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/19/2012
Comments: The Groundwater extraction system operated in compliance with the NPDES permit and treated 146,000 gallons of groundwater this quarter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/11/2013
Comments: The groundwater extraction treatment system operated in compliance with the NPDES discharge permit. The total volume treated in the fourth quarter was 290,200 gallons, removing 0.103 kilograms of VOC's. Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/09/2011
Comments: No volatile organic compounds were detected in any of the 4 deep wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/01/2011
Comments: Soil gas field work completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

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Completed Document Type: Site Characterization Workplan
Completed Date: 11/30/2011
Comments: Soil Gas Work Plan to conduct soil gas sampling at 2 depths at 6 locations approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 01/27/2012
Comments: Soil gas sampling results are significantly higher than previous sampling event. Indoor air will be tested as the next step.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 02/13/2012
Comments: Indoor air sampling will be conducted inside the pool house and outdoor air samples will be collected near the pool house and at an upgradient location.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/05/2012
Comments: According to the indoor air results, the screening level cancer risks are: 2.2 x 10-6 for PCE and 4.3 x 10-6 for TCE (using the new toxicity criterion for TCE). Since vinyl chloride has been detected in soil gas, assuming vinyl chloride (VC) could be present in indoor air at its reporting limit of 0.042 ug/m3, the risk for vinyl chloride would be 1.4 x 10-6. The cumulative risk for TCE, PCE and VC is 7.9 x 10-6, still within the acceptable risk range. However, sub surface soil gas source remediation need to be conducted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/09/2013
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 103,100 gallons of water was processed through the remediation system during the September 2013 reporting period from August 29 to October 1, 2013.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/18/2013
Comments: The GWTS was operated and discharge was in compliance with the NPDES permit this quarter. VOC’s in the influent were around 100 ppb and non-detect in the effluent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/18/2013
Comments: 80,900 gallons of water was processed through the remediation system during the October 2013 reporting period from October 1 to November 1, 2013.

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Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	12/16/2013
Comments:	WTS operates in compliance with the NPDES permit. Volume treated this month was 74,900m gallons.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	01/16/2014
Comments:	The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 54,899 gallons of water was processed through the remediation system during the December 2013 reporting period from December 1 to December 31, 2013.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	03/06/2014
Comments:	Soil vapor results consistent with historical values, VOCs detected TCE, PCE Vinyl Chloride and DCE. Well SVM-2A the shallow motioning well was sampled but the sample is suspect due to purging problems.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	02/04/2014
Comments:	The report summarizes the annual 2013 groundwater monitoring data collected at the Site. The results were within historic ranges for chlorinated volatile organic compounds. Naturally-occuring parameters were also measured for use in design of future remedies such as insitu-bioremediation.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	02/13/2014
Comments:	The total volume of treated water for the fourth quarter 2013 and during the 2013 monitoring period was 210,400 and 838,000 gallons, respectively. The total volume treated since the remediation system began operation on May 4, 2001, was 191,435,406 gallons.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	02/28/2014
Comments:	The GWTS operated in compliance with the NPDES permit.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	03/06/2014
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

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Completed Document Type: Operation and Maintenance Report
Completed Date: 04/07/2014
Comments: 79,500 gallons of water was processed through the remediation system during the March 2014 reporting period from February 28, 2014 to March 31,2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/14/2014
Comments: The total volume of treated water for the first quarter 2014 was 188,400 gallons. The total volume treated since the remediation system operation began was 191,623,806 gallons. 0.09 kg VOC were removed in the first quarter 2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/16/2014
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 26,700 gallons of water was processed through the remediation system during the May 2014 reporting period from May 1, 2014 to May 30, 2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/08/2014
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 69,700 gallons of water was processed through the remediation system during the April 2014 reporting period from March 31, 2014 to May 1, 2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/16/2014
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 43,600 gallons of water was processed through the remediation system during the June 2014 reporting period from May 30, 2014 to June 30, 2014. Discharge was in compliance with the NPDES permit.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/18/2014
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 17,900 gallons of water was processed through the remediation system during the July 2014 reporting period from June 30, 2014 to July 31, 2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/14/2014
Comments: Groundwater treatment system continues to treat low volumes of water

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with consistent concentrations of VOC's in the influent and non-detect results in effluent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/23/2013
Comments: Based on a comparison of VOC concentrations measured during previous sampling events with concentrations measured during the semiannual 2013 event, VOC concentrations have generally decreased over time. However, VOC concentrations in many of the Site s wells have fluctuated over time and are likely due to one or more of the following conditions: seasonal variation of groundwater elevations, changing groundwater flow dynamics as extraction well pumps are turned off or on, and redistribution of dissolved contaminant mass over time. Additionally, enhanced in-situ bioremediation pilot tests in the areas of wells GW-1A, GW-3, EW-6, and EW-8 have caused VOC concentrations in these wells to vary significantly.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 03/19/2014
Comments: Meeting with Sandpiper HOA to discuss indoor air sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/16/2014
Comments: The NPDES Discharge Permit NOI was sent in on time.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 06/30/2014
Comments: Work plan includes detailed procedures for indoor air sampling to be conducted in the townhomes.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan
Completed Date: 06/24/2014
Comments: HASP is included as an appendix to the Indoor Air Workplan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 06/26/2014
Comments: Work Notice to Sandpiper community informing that indoor air sampling will be conducted at all residents homes who have allowed access for sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/17/2014
Comments: The total volume of treated water for the third quarter 2014 was

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49,300 gallons. The total volume treated since the remediation system operation began was 191,844,006 gallons.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/18/2015
Comments: GWTS operated in compliance with the NPDES permit and quantity discharged was within normal flow rates. System has removed over 191 million gallons and over 260 pounds of VOC's to date.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 09/25/2015
Comments: Indoor air results from both the summer 2014 and the winter of 2015 are included. There is no clear seasonal effect on samples. concentrations remain above screening levels. Three homes which have sub-slab systems install have concentration below screening levels.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 08/21/2014
Comments: Fact Sheet informing Sandpiper Townhome Complex community about meeting to be held on August 20, 2014, to explain the results of the indoor air sampling, proposed next steps in addressing this issue and answering questions from the public.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/09/2014
Comments: Treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 19,700 gallons of water was processed through the remediation system during the August 2014 reporting period from July 31, 2014 to September 5, 2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/13/2014
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 11,700 gallons of water was processed through the remediation system during the September 2014 reporting period from September 5, 2014 to October 1, 2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/13/2014
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 12,700 gallons of water was processed through the remediation system during the October 2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

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Completed Document Type: Operation and Maintenance Report
Completed Date: 12/22/2014
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 16,300 gallons of water was processed through the remediation system during the November 2014 reporting period from October 31, 2014, to December 1, 2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 01/26/2015
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 23,100 gallons of water was processed through the remediation system during the December 2014 reporting period from December 1, 2014, to December 31, 2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 08/26/2015
Comments: Workplan for the demolition of the Groundwater Treatment System

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 04/01/2016
Comments: Demolition of groundwater extraction and treatment system complete. Site restored by paving and refencing.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 09/08/2014
Comments: Design is approved by Registered Professional Engineer as proposed. Confirmation sampling required after installation to ensure system operation is adequate.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 04/07/2015
Comments: Risk assessment conducted by DTSC’s Human & Ecological Risk Office.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 08/25/2014
Comments: Site-Specific Health and Safety Workplan for Vapor Control System/Sub-Slab Depressurization Systems installed at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/26/2014
Comments: Schedule did not allow for June sampling

Completed Area Name: PROJECT WIDE

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Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	09/15/2015
Comments:	Data looks consistent with historical trends. Well EW 6 continues to increase.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Pilot Study/Treatability Workplan
Completed Date:	12/15/2014
Comments:	SVE would remove contaminants but it is not capable of providing vapor intrusion mitigation for residents.
Completed Area Name:	Indoor Air
Completed Sub Area Name:	Unit 001
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/05/2015
Comments:	Certification letter summarizes sub-slab depressurization system design, installation, and completion performed from August 2014 through September 2014 at Unit 001, within the Sandpiper Townhome Complex.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	03/16/2015
Comments:	Final diagnostic plan to evaluate sub-slab system performance under varying conditions.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	03/17/2015
Comments:	The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 3,300 gallons of water was processed through the remediation system during the January 2015 reporting period from January 1, 2015, to January 31, 2015 and 3,100 gallons during the February reporting period from February 1, 2015 through February 28, 2015. The low flow totals for January and February were a result of system down time due to the malfunctioning uninterruptable power supply, which was replaced on February 19, 2015. Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	03/17/2015
Comments:	The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 3,300 gallons of water was processed through the remediation system during the January 2015 reporting period from January 1, 2015, to January 31, 2015 and 3,100 gallons during the February reporting period from February 1, 2015 through February 28, 2015. The low flow totals for January and February were a result of system down time due to the malfunctioning uninterruptable power supply, which was replaced on February 19, 2015. Not reported

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Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/11/2015
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 20,400 gallons of water was processed through the remediation system during the March 2015 reporting period from March 3, 2015, to March 27, 2015.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/11/2015
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 14,800 gallons during the April reporting period from March 27, 2015 through April 28, 2015.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/18/2015
Comments: Data is similar to previous results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/26/2015
Comments: Data within normal ranges

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/18/2015
Comments: Soil vapor results continue to show results for TCE, PCE and VC.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 003
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/05/2015
Comments: Certification letter summarizes sub-slab depressurization system design, installation, and completion performed in November 2014 at Unit 003, within the Sandpiper Townhome Complex.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 002
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/05/2015
Comments: Certification letter summarizes sub-slab depressurization system design, installation, and completion performed from August 2014 through NOvember 2014 at Unit 002, within the Sandpiper Townhome Complex.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 05/11/2015
Comments: Diagnostic testing conducted on Unit 002. Follow up indoor air

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sampling will be conducted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/26/2015
Comments: Operation within normal ranges

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/02/2015
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 17,100 gallons of water was processed through the remediation system during the August 2015 reporting period from July 31, 2015 to September 1, 2015.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/02/2015
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 12,400 gallons of water was processed through the remediation system during the September 2015 reporting period from to September 1, 2015 to September 30, 2015. The system was turned off on September 30, 2015

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 10/30/2014
Comments: PRE-HARP signed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 01/29/2015
Comments: Contract 14-T3902 WO 01 A1 to authorize operation and maintenance of Groundwater Extraction Treatment System (GWTS), Soil Vapor Extraction (SVE) and sub-slab system installation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 10/05/2015
Comments: Contract Fiscal Approval (CFA) of Contract 14-T3902 A2 adds fund for (i) operation and maintenance of the groundwater extraction treatment system (GWTS), demolition of GWTS and installation of additional sub-slab depressurization systems.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 11/03/2015
Comments: Contract 14-T3902 A2 authorizes activities required for (i) operation and maintenance of the groundwater extraction treatment system (GWTS), demolition of GWTS and installation of additional sub-slab

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depressurization systems.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/25/2014
Comments: Contract 09-T9128 Work Order 1 is for operating and maintaining groundwater treatment system at the Singer Friden Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Orphan Site Designation
Completed Date: 02/24/2016
Comments: DTSC determined that there are no viable responsible parties for this site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PRP Identification Memorandum
Completed Date: 02/16/2016
Comments: PRP ID Memo indicates that there are no viable responsible parties at this site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 04/15/2014
Comments: Contract 13-T3786

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 04/17/2014
Comments: This Work Order 1 is for conducting indoor air sampling at the Singer Friden Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 09/30/2014
Comments: Contract Fiscal Approval (CFA) of Contract 14-T3902 for the following activities: (i) operation and maintenance of the groundwater extraction treatment system; (ii) groundwater and soil gas sampling; (iii) and indoor air confirmation sampling after sub-slab system installation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 02/20/2015
Comments: Contract Fiscal Approval (CFA) of Contract 14-T3865 time extension.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 04/17/2014
Comments: Contract 09-T9128 Amendment A3

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Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 02/17/2017
Comments: Site visit 2017-02-13. Post-HARP signed 2017-02-17.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Access Agreement
Completed Date: 02/04/2016
Comments: Access agreement to install a SSDS at Unit 002

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 05/01/2017
Comments: Uploaded 5/1.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Field Order
Completed Date: 07/29/2014
Comments: Field order to allow relocation of one or more residents in the Sandpiper Townhomes into temporary housing.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 12/30/2014
Comments: Contract 13-T3786 A-1 adds indoor air sampling activity.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 07/06/2016
Comments: Contract extension until June 30, 2017

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 08/21/2014
Comments: Contract 14-T3865 WO 01 to authorize demolition of groundwater treatment system at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Access Agreement
Completed Date: 09/02/2014
Comments: Access Agreement to residential properties within Sandpiper Townhome Complex

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 06/21/2017
Comments: Contract amendment to add money and extend the contract through September 30, 2018. Work includes continued groundwater monitoring

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and as-needed installation of sub-slab systems.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 02/13/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 04/23/2018
Comments: Work Order issued for semiannual groundwater monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/30/2018
Comments: Dundee Homeowners Association approval for DTSC to install remediation systems at residences within the Sandpiper Condominium Complex

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 002
Completed Document Type: Correspondence
Completed Date: 08/15/2017
Comments: One indoor air sample were collected at Unit 002. Based on the indoor air sampling results, tetrachloroethene was found at a concentration above the residential air screening level.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 10/10/2018
Comments: Contract 17-T4416 Work Order No, 1 was fully executed on October 10, 2018. The Work Order directs ERRG to perform indoor air and sub-slab depressurization system effluent sampling; install floor sealant and air sealing in a residence to determine the effectiveness in reducing volatile organic compound concentrations and prepare a work documenting the work; and conduct operation and maintenance of sub-slab depressurization systems installed at individual residences; conduct semi-annual groundwater monitoring; and prepare and implement a workplan for a soil gas survey.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 06/06/2019
Comments: Hazard Appraisal and Recognition Plan Post Site Visit conducted on June 5, 2019 to verify proposed soil gas monitoring well locations.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 007
Completed Document Type: Correspondence
Completed Date: 09/17/2018
Comments: Informational letter indicating the new assigned project manager.

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Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Request for Tribal Outreach
Completed Date:	06/18/2019
Comments:	The Native American Heritage Commission conducted a search of the Sacred Land File with negative results for the area of the Singer Friden Site in San Leandro (Site). Letters were mailed to the seven Tribal contacts identified and included two maps locating the Site as attachments. The DTSC Office of Environmental Equity (OEE) received no requests for consultation regarding this Site. Thus, DTSC OEE considered he Tribal outreach and engagement completed and approved proceeding with the planned site investigation activities.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	01/16/2019
Comments:	Post card inviting local residents to participate in an Open House event. During this event DTSC will provide results of an indoor air monitoring survey conducted at their homes and explain the performance of the sub slab depressurization systems installed in homes.
Completed Area Name:	Indoor Air
Completed Sub Area Name:	Unit 002
Completed Document Type:	Correspondence
Completed Date:	09/17/2018
Comments:	Informational letter indicating the new assigned project manager.
Completed Area Name:	Indoor Air
Completed Sub Area Name:	Unit 005
Completed Document Type:	Correspondence
Completed Date:	09/17/2018
Comments:	Informational letter indicating the new assigned project manager.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	05/19/2015
Comments:	NPDES Report submitted to RWQCB per the permit requirements.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	08/10/2015
Comments:	The total volume of treated water for the second quarter of 2015 was 43,700 gallons. The total volume treated since the remediation system began operation on May 4, 2001, was 191,966,606 gallons. The system operated in compliance with requirements of NPDES VOC and Fuel General Permit No. NPDES Permit No. CAG912002, Order No. R2-2012-0012. Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	10/20/2015
Comments:	Report was prepared by ERRG on behalf of DTSC. The Report documents

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locations where samples were collected. Analytical results to document compliance with discharge requirements for system flow and mass removal data; and operational status of the treatment system and observations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/20/2015
Comments: Groundwater Extraction and Treatment Plant Demolition complete. Site restored.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 11/06/2015
Comments: Work Notice issued for GWTS Demolition.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/24/2016
Comments: Final NPDES Report fro Groundwater extraction and Treatment System

Completed Area Name: Indoor Air - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/31/2016
Comments: March 2016 indoor air sampling and SSD diagnostic. Elevated moisture was found in all SSDs.

Completed Area Name: Indoor Air - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/19/2016
Comments: Follow up sampling on June 20, 2016 (after SSDs were dried out) in Unit 002 found reduced levels of tetrachloroethene.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 01/21/2015
Comments: Notice for winter round of indoor air sampling at Sandpiper Condominiums.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/12/2018
Comments: Groundwater monitoring had not been performed at the Site since 2015. Comparison of results from the second quarter 2018 groundwater monitoring event with historical data show that the volatile organic compounds (VOC) tetrachloroethene, trichloroethene and vinyl chloride have remained undetectable (< 0.5 micrograms per liter) in samples collected from the deep and intermediate zone aquifer, while results from the shallow aquifer show that the concentrations of these VOCs have stabilized, decreased or increased over time. The reasons for

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this different behavior in the shallow aquifer are likely phenomena associated with historical in-situ remediation efforts implemented at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/14/2018
Comments: The 2018 groundwater monitoring event was completed. The depth to groundwater was measured in 20 monitoring wells. Groundwater samples were collected from the 20 monitoring wells and 9 former extraction wells using passive diffusion bags. Volatile organic compound (VOC) concentrations reported during past groundwater sampling events were compared to those detected during the 2018 event. The comparison indicated that VOC concentrations have generally stabilized or decreased; however, VOC concentrations in may of the Site wells have fluctuated over time.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 009
Completed Document Type: Fieldwork
Completed Date: 06/04/2018
Comments: Indoor air sampling completed in unit prior to proceeding with Retro Coat pilot study.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 009
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 11/15/2019
Comments: Letter report describes the activities conducted to implement a membrane coating (Retro-Coat) pilot study (Pilot Study) at the Unit 009, Former Singer-Friden Facility. Letter report describes findings of the Pilot Study.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 008
Completed Document Type: Correspondence
Completed Date: 09/17/2018
Comments: Informational letter indicating the new assigned project manager.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 001
Completed Document Type: Correspondence
Completed Date: 09/17/2018
Comments: Informational letter indicating the new assigned project manager.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 008
Completed Document Type: Correspondence
Completed Date: 09/19/2018
Comments: Correspondence to Unit 008 regarding 7-day passive indoor air sampling results.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 004
Completed Document Type: Correspondence
Completed Date: 09/17/2018

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Comments: Informational letter indicating the new assigned project manager.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 006
Completed Document Type: Correspondence
Completed Date: 09/17/2018
Comments: Informational letter indicating the new assigned project manager.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 009
Completed Document Type: Correspondence
Completed Date: 09/17/2018
Comments: Informational letter indicating the new assigned project manager.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 05/21/2018
Comments: Contract 14-T3902 AM4 - Work Order # 001 Amendment # 006 - Work Order related to implementation of Retro-Coat Pilot Study at Unit 009.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/17/2018
Comments: Informational letter indicating the new assigned project manager.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 003
Completed Document Type: Correspondence
Completed Date: 09/17/2018
Comments: Informational letter indicating the new assigned project manager.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 03/16/2018
Comments: Fully-executed Contract 17-T4416 between DTSC and Engineering/Remediation Resource Group, Inc. to conduct indoor air monitoring, install floor sealant and sub-slab depressurization systems, perform groundwater injection and pre- and post-injection soil gas and groundwater monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 09/27/2018
Comments: Contract 17-T4416 Amendment 1 fully executed. The Amendment adds additional activities, including groundwater monitoring, a soil gas survey, delineation o the volatile organic compound plume using a membrane interface probe, operation and maintenance of a sub-slab depressurization system installed at individual residences at the Site, and indoor air monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order

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Completed Date: 01/23/2020
Comments: Work Order Amendment to Engineering/Remediation Resources Group to perform building foundation inspection in up to 25 townhome units at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 08/26/2019
Comments: Revised HARP reviewed by DTSC IH and approved by DTSC IH and Unit Chief.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 007
Completed Document Type: Correspondence
Completed Date: 01/24/2019
Comments: December 22, 2017 Certification Letter will be updated with information from 2018 activities at Unit 007, including: (1) Crack sealing of exposed concrete slab within living quarters of the unit; (2) Changing out one of the two SSDS fans to a variable speed fan; (3) Installation of additional fan noise dampening materials; and (4) Post SSDS modification indoor air sample results.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 008
Completed Document Type: Correspondence
Completed Date: 01/24/2019
Comments: February 1, 2018 Certification Letter will be updated with information from 2018 activities at Unit 008, including: (1) Changing out the SSDS fan to a variable speed fan; and (2) Post SSDS modification indoor air sample results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/20/2020
Comments: Correspondence provides response to a Sandpiper Townhome Complex s resident about environmental hazard disclosure requirements of properties located in the Sandpiper Townhome Complex. Due to confidentially, correspondence s addressee information is redacted.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 006
Completed Document Type: Correspondence
Completed Date: 05/18/2017
Comments: One indoor air sample were collected at Unit 006. Based on the indoor air sampling results, all primary VOCs (TCE, PCE and VC) were found at a concentration lower than the residential air screening level.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 012
Completed Document Type: Correspondence
Completed Date: 01/13/2020
Comments: One indoor air sample was collected from Unit 012 s bathroom. Based on the indoor air sampling results, trichloroethene and tetrachloroethene were found at levels above the residential air screening levels.

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Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/20/2020
Comments: Correspondence and consent form sent to Sandpiper Townhome Complex residents offering indoor air sampling on a voluntary basis

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 001
Completed Document Type: Correspondence
Completed Date: 01/13/2020
Comments: Two samples were collected from Unit 001. One sample (indoor air sample) was collected from Unit 001 bathroom. The second sample (effluent sample) was collected outside at the sub-slab depressurization system s exhaust pipe. Based on the October 2019 indoor air sampling results, none of the chemicals of concern was found at your residence indoor air with concentrations above the residential air screening level.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 007
Completed Document Type: Correspondence
Completed Date: 01/29/2019
Comments: DTSC letter conveying indoor air sampling results to resident. Based on the December 2018 and historical indoor air quality testing results, the fan system has been effective in maintaining the TCE indoor air concentration in the Unit 007 below residential screening levels. PCE indoor air concentrations have been above the DTSC residential screening level; however, the fan system has been effective in keeping the exposure, risk from PCE in indoor air at Unit 007 within the acceptable cancer risk range.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 06/17/2020
Comments: Contract 19-T4790 with RMD. Contract scope of work consist of two tasks. Task 1 - Technical Consultative Services and Task 2 - Environmental Noise Assessment for Soil Vapor Extraction System

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 010
Completed Document Type: Correspondence
Completed Date: 01/13/2020
Comments: Two indoor air samples were collected from Unit 010 bathroom. The two indoor air samples consisted of one primary and one duplicate sample. The duplicate sample was used to confirm the validity of the primary sample results. Based on the indoor air sampling results, trichloroethene was found at a concentration above the residential air screening level.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 004
Completed Document Type: Correspondence
Completed Date: 01/13/2020
Comments: Three samples were collected from Unit 004. Two samples (indoor air) were collected from Unit 004 s bathroom and living room. The third

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sample (effluent sample) was collected outside at the sub-slab depressurization system s exhaust pipe. Based on the October 2019 indoor air sampling results, only the chemical of concern vinyl chloride was found at your residence indoor air with concentrations above the residential air screening level.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 007
Completed Document Type: Correspondence
Completed Date: 01/13/2020
Comments: A total of five samples were collected at Unit 0007. Two indoor air samples were collected from Unit 007 s bathroom and kitchen. Two effluent samples were collected at Unit 007 s fan system s exhaust pipes along the rear southwestern exterior wall of your home, and the northeastern wall of your home s garage. One ambient air sample was collected at Unit 007 s back yard. Based on the October 2019 indoor air sampling results, the only chemical of concern found at Unit 007 with concentrations above the residential air screening level (0.46 micrograms per cubic meter [g/m3]) was tetrachloroethene.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 013
Completed Document Type: Correspondence
Completed Date: 01/13/2020
Comments: One indoor air sample was collected from Unit 013 s bathroom. Based on the indoor air sampling results, none of the primary chemicals of concern (trichloroethene, tetrachloroethene and vinyl chloride) was found at your residence s indoor air above the residential air screening level.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 009
Completed Document Type: Correspondence
Completed Date: 01/13/2020
Comments: Pilot Study involved collection soil vapor, sub-slab vapor and indoor air samples before and after the application of Land Science Technologies Retro-Coat on the exposed concrete slab foundation of Unit 009.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 009
Completed Document Type: Correspondence
Completed Date: 08/15/2017
Comments: Two indoor samples were collected at Unit 009. One indoor air sample was collected when the residence was unoccupied and HVAC off, and the second sample was collected under normal occupancy and HVAC on. Under normal occupancy and HVAC operation, all primary VOCs were below DTSC’s health-based screening levels. The results while the house was unoccupied and HVAC off (i.e. no air exchange) do not indicate a need for an active vapor mitigation system

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 006
Completed Document Type: Correspondence
Completed Date: 09/06/2017
Comments: One indoor air sample were collected at Unit 006. Based on the indoor air sampling results, tetrachloroethene was found at a concentration

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above the residential air screening level.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 07/09/2020
Comments: Contract 19-T4790 Work Order # 1 with RMD. Work Order #1 scope of work consists of (i) Review, analyze, and comment on existing data. (ii) Evaluate environmental noise emission from proposed Soil Vapor Extraction (SVE) system; and (iii) Propose environmental noise emission reduction measures for SVE systems to be installed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Field Order
Completed Date: 07/25/2019
Comments: Field Order No 1 includes maintenance and noise dampening to be conducted at the former groundwater extraction treatment system vaults that are still in place at the Singer Friden site.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 012
Completed Document Type: Correspondence
Completed Date: 05/29/2020
Comments: Unit 012 Building Foundation Inspection Report Cover letter. Confidential information redacted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 02/10/2020
Comments: Hazard Appraisal and Recognition Plan Post Site Visit conducted on February 7, 2020 at two residential units (Units 011 and 012).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Field Order
Completed Date: 08/27/2020
Comments: The purpose of this field order is to repair the former groundwater extraction treatment system (GWETS) well-vaults.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 004
Completed Document Type: Correspondence
Completed Date: 07/11/2019
Comments: Correspondence sent to Unit 004 home owner. Confidential information redacted and attachments not included.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 006
Completed Document Type: Correspondence
Completed Date: 07/11/2019
Comments: Correspondence sent to Unit 006 home owner. Confidential information redacted and attachments not included.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

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Completed Document Type: State/Federal Funded Site Contract
Completed Date: 10/12/2020
Comments: Contract 17-T4306 A1 extended until October 31, 2021

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 011
Completed Document Type: Correspondence
Completed Date: 01/13/2020
Comments: Two indoor air samples were collected from Unit 011 s bathroom. The two indoor air samples consisted of one primary and one duplicate sample. The duplicate sample was used to confirm the validity of the primary sample results. Based on the indoor air sampling results, trichloroethene was found at a concentration above the residential air screening level.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 10/01/2018
Comments: Contract 14-T3902 expired on September 30, 2018. DTSC issued a stop work letter for Engineering/Remediation Resources Group, Inc. to immediately cease all work under the this contract and to submit a final invoice.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 08/29/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 10/20/2020
Comments: Contract 17-T4416 Work Order No. 2 with ERRG. Work Order No. 2 scope of work consists of: i) Dual-completion groundwater monitoring well and nested soil gas monitoring well installation workplan. ii) Installation of three dual-completion groundwater monitoring wells and one nested soil gas monitoring well. iii) Survey of installed dual-completion groundwater monitoring wells. iv) Post-construction reporting.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/06/2019
Comments: Work Order Amendment to Engineering/Remediation Resources Group for geophysical survey of four limited areas. The combined geophysical survey areas are approximately 21,600 square feet.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 011
Completed Document Type: Correspondence
Completed Date: 05/29/2020
Comments: Unit 011 Building Foundation Inspection Report Cover letter. Confidential information redacted.

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Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Field Order
Completed Date: 09/11/2019
Comments: The purpose of Field Order 2 is to clean underground utility paint markings using a hot-water pressure washer. Spray paint with black and/or gray hue (spray-paint) may be applied over paint markings, if necessary, if cleaning was unsuccessful using the hot-water pressure washer.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 007
Completed Document Type: Correspondence
Completed Date: 02/18/2021
Comments: Email sent to Unit 007 property owner informing status of sub-slab depressurization annual operation and maintenance schedule/activities. Property owner information redacted due to confidentiality.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 008
Completed Document Type: Correspondence
Completed Date: 02/18/2021
Comments: Email sent to Unit 008 property owner informing status of sub-slab depressurization annual operation and maintenance schedule/activities. Property owner information redacted due to confidentiality.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 006
Completed Document Type: Correspondence
Completed Date: 02/18/2021
Comments: Email sent to Unit 006 property owner informing status of sub-slab depressurization annual operation and maintenance schedule/activities. Property owner information redacted due to confidentiality.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 004
Completed Document Type: Correspondence
Completed Date: 04/08/2021
Comments: Not reported

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 001
Completed Document Type: Correspondence
Completed Date: 04/08/2021
Comments: Not reported

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 002
Completed Document Type: Correspondence
Completed Date: 04/08/2021
Comments: Not reported

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 008

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Completed Document Type: Correspondence
Completed Date: 04/08/2021
Comments: Not reported

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 003
Completed Document Type: Correspondence
Completed Date: 04/08/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 04/06/2021
Comments: Not reported

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 001
Completed Document Type: Correspondence
Completed Date: 02/18/2021
Comments: Email sent to Unit 001 property owner informing status of sub-slab depressurization annual operation and maintenance schedule/activities. Property owner information redacted due to confidentiality.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 004
Completed Document Type: Correspondence
Completed Date: 02/18/2021
Comments: Email sent to Unit 004 property owner informing status of sub-slab depressurization annual operation and maintenance schedule/activities. Property owner information redacted due to confidentiality.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 002
Completed Document Type: Correspondence
Completed Date: 02/18/2021
Comments: Email sent to Unit 002 property owner informing status of sub-slab depressurization annual operation and maintenance schedule/activities. Property owner information redacted due to confidentiality.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 003
Completed Document Type: Correspondence
Completed Date: 02/18/2021
Comments: Email sent to Unit 003 property owner informing status of sub-slab depressurization annual operation and maintenance schedule/activities. Property owner information redacted due to confidentiality.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 006
Completed Document Type: Correspondence
Completed Date: 04/08/2021
Comments: Not reported

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Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 007
Completed Document Type: Correspondence
Completed Date: 04/08/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 02/25/2020
Comments: Soil gas analytical results for the 70 soil gas samples collected from the 35 nested soil gas monitoring wells installed for this project indicate widespread detections of trichloroethene (TCE) and tetrachloroethene (PCE) across the Site on both investigated depths, 5 and 15 feet below ground surface. The potential indoor air concentrations resulting from measured soil gas concentrations were calculated by considering a generic attenuation factor of 0.03. The results indicate that predicted indoor air concentrations of PCE and TCE may exceed the residential air screening levels in the vicinity of most of the soil gas monitoring wells. The risks of volatile organic compounds vapor intrusion (VI) into nearby buildings may also be augmented by the presence of preferential VI pathways such as subsurface utility corridors and cracks in concrete building foundations. These results indicate that further investigation of site conditions is warranted to further evaluate potential risks to human health at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 07/30/2019
Comments: The Soil Gas Investigation Workplan provides the means and methods to conduct a soil gas investigation for volatile organic compounds at the Site and was developed based on guidelines provided by the 2015 DTSC Advisory for Active Soil Gas Investigations.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 009
Completed Document Type: Fieldwork
Completed Date: 08/21/2018
Comments: Passive indoor air sampling deployment and building survey.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 008
Completed Document Type: Monitoring Report
Completed Date: 09/14/2018
Comments: This letter report summarizes the air sampling event performed on May 29 through June 5, 2018 at Unit 008 within the Sandpiper Townhouse Complex. The tetrachloroethene (PCE) concentration detected during the May 2018 event was similar to the concentrations detected during the May and December 2017 air sampling events. The concentrations have not changed significantly since the sub-slab depressurization system was installed in October 2017. ERRG, DTSC's contractor, recommended in the report that a variable speed fan or second fan be installed to increase suction and reduce PCE concentrations in indoor air.

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Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/18/2018
Comments: Waste manifest of excavation spoils from installation of a sub-slab depressurization system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/23/2015
Comments: The Indoor Air Sampling Report is not available on the EnviroStor because it contains confidential information. The public may review a bounded copy of the Report at the DTSC Berkeley Office File Room (Public Repository). Confidential information will be redacted before the Report become available for public review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/19/2018
Comments: Site reconnaissance with DTSC SM and GSU staff.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 007
Completed Document Type: Monitoring Report
Completed Date: 01/29/2019
Comments: This letter report summarizes the air sampling event performed from November 13, 2017, through December 13, 2018, at Unit 007 within the Sandpiper Townhouse Complex at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 02/27/1996
Comments: During installation of the extraction and treatment system conveyance piping in December 1995, potentially contaminated soil was encountered adjacent to the excavation for the vault box in the intersection of Heathrow Place and Cornwall Way. Pursuant to Task Order No. 2-085-11.0-200251 issued under contract No. 91-T0085, DTSC retained URS Consultants, Inc. (URS) to perform a soil removal action at the Singer Friden site. Soil excavation extended to approximately 5 feet below grade surface. The soil quantity to be removed was estimated to be approximately 25 cubic yards. The excavation was backfilled on February 11 and 12, 1996. Class 2 gravel fill was placed in the excavation in approximately 8-inch lift and compacted with a hand-held Wacker. Final grading and asphalting was completed on February 14, 1996.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/04/2019
Comments: Letter report summarizes operation and maintenance activities performed in November and December of 2018 on the sub-slab depressurization systems at the Former Singer-Friden Facility.

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Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 008
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/09/2019
Comments: Letter report documents sub-slab depressurization system design, installation, and modifications at Unit 008 at the Former Singer-Friden Facility.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 007
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/09/2019
Comments: Letter report documents sub-slab depressurization system design, installation, and modifications at Unit 007 at the Former Singer-Friden Facility.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 08/01/2019
Comments: Work Notice informing the community about the upcoming subsurface geophysical survey (geophysical survey) and soil gas investigation that will be conducted in the Singer Friden, Sandpiper Townhome Complex. Geophysical survey and soil gas investigation activities are scheduled from August 19, 2019 to September 6, 2019 between the hours of 8:00 A.M. and 5:00 P.M., weather permitting.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/18/2020
Comments: Fieldwork activities completed on December 18, 2020

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 009
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 06/11/2018
Comments: The work plan describes the permitting and utility locate activities, pilot study sampling activities, Land Science Technologies Retro-Coat application, waste management procedures, and reporting requirements.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 01/27/2020
Comments: Third Five-Year Review (FYR) Report consisted of a review of relevant documents, including operation and maintenance records, pilot study reports and monitoring data from June 2012 to July 2018. From June 2013 to June 2015, the groundwater sampling frequency changed from quarterly to a semi-annual basis. Seventeen wells were sampled in the spring of each year and 21 wells in the fall. After June 2015, groundwater monitoring did not resume until the groundwater monitoring event in May 2018. Third FYR Report recommended the following: i) Conduct an additional soil gas survey at the Site. ii) Prepare an amendment to 1996 RAP to: (a) change the selected groundwater remedy for the Site from groundwater extraction and treatment to enhanced in-situ bioremediation; and (b) add soil vapor

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extraction (SVE) and treatment as part of the remedy to address volatile organic compounds (VOC)-impacted soil gas. iii) Install an SVE system to extract soil gas from portions of the Site where soil gas surveys reported soil gas concentrations above federal and state screening levels. iv) Conduct groundwater sampling in the Site s monitoring well network on a semi-annual basis. v) Implement enhanced in-situ bioremediation at hot spots areas of the VOC-impacted groundwater plume and at areas downgradient of the hot spots areas. vi) Implement an expanded groundwater sampling protocol as needed to monitor enhanced in-situ bioremediation effectiveness. vii) Conduct groundwater monitoring in the intermediate (INZ-1, INZ-2 and INZ-3) and deep (DW-1, DW-2 and DW-3) zone aquifers on a semi-annual basis. viii) Conduct groundwater sampling in drinking water wells in areas immediately down-gradient and adjacent to the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/15/2019
Comments: Letter report summarizes the 2018 fourth quarter groundwater monitoring data collected at the former Singer-Friden Facility (site). Primary chemicals of concern (COCs) concentrations and other volatile organic compounds reported during previous sampling events were compared with concentrations reported during the November 2018 sampling event. As there was a 3-year gap between groundwater monitoring events of 2015 and 2018, additional groundwater monitoring events are needed to establish trends in primary COC concentrations within the appropriate statistical confidence levels for the wells screened in the site s hydrogeological units.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 004
Completed Document Type: Monitoring Report
Completed Date: 07/10/2019
Comments: Letter report summarizes air sampling event performed from February 26 through February 27, 2019, at Unit 004 within the Sandpiper Townhouse Complex at the Former Singer-Friden Facility.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 006
Completed Document Type: Monitoring Report
Completed Date: 07/10/2019
Comments: Letter report summarizes air sampling event performed from February 26 through February 28, 2019, at Unit 006 within the Sandpiper Townhouse Complex at the Former Singer-Friden Facility.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 07/17/2019
Comments: The subsurface geophysical survey workplan describes activities to assess for historical subsurface features. Survey activities will be conducted at five areas across the Site. Survey activities consist of a combination of magnetometry, electromagnetic terrain conductivity, metal detector, and ground penetrating radar methods .

Completed Area Name: PROJECT WIDE

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Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan
Completed Date: 07/23/2019
Comments: The Site-Specific Health and Safety Plan provides essential information about hazards associated the Site, defines protocols necessary for protecting on-site personnel from the hazards associated with soil vapor investigation activities, and establishes site safety and health policies and procedures.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/04/2019
Comments: Soil Gas Investigation Subsurface Geophysical Survey field work activities completed on September 4, 2019.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/13/2019
Comments: Field work (indoor air quality samples) completed on 9/13/2019. Three residences (Units 010, 012 and 013) were sampled.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/18/2019
Comments: October 2019 Indoor Air Quality Sampling Event completed on October 18, 2019. Thirteen samples were collected as following: * Six primary and one duplicate indoor air quality samples. * Five effluent samples. * One ambient air sample.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/17/2019
Comments: A combination of geophysical methods was used to meet the objectives of the subsurface geophysical surveys as described in the 2019 Subsurface Geophysical Survey workplan. The selected geophysical survey methods were electromagnetic line locating, metal detection, ground penetrating radar, and total field magnetic. The selected geophysical methods used in each of the five survey areas at former Singer-Friden Site depended on the nature of the suspected targets and the available site access. Subsurface geophysical surveys results identified notable evidence of subsurface features at the central portion of Cornwall Way across the Sandpiper Townhome Complex s Pool House. These subsurface features are likely a shallow backfilled catch basin and a buried metallic object. Subsurface geophysical surveys did not identify notable evidence of subsurface features at the other four survey areas.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/21/2020
Comments: Based on the findings of the Report, groundwater elevation and potentiometric surface data indicate potential vertical gradients

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between the four water-bearing zones at the Site. Concentrations of primary and other volatile organic compounds (VOCs) reported during historical sampling events were compared with the concentrations reported during the June 2020 sampling event. Analytical results indicate that VOC concentrations have largely stabilized or decreased over time, with occasional increases and fluctuations likely due to one or more of the following conditions: (1) seasonal variation of groundwater elevations and flow conditions and (2) redistribution of the dissolved contaminant mass in saturated porous media over time. Additionally, enhanced in-situ bioremediation pilot tests conducted in the areas near to the wells GW-1A, GW-3, EW-6, and EW-8 have caused VOC concentrations in these wells to vary significantly.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/17/2019
Comments: According to the First Semiannual 2019 Groundwater Monitoring Report, volatile organic compound (VOC) concentrations have generally stabilized or decreased over time when compared to previous sampling events results. However, VOC concentrations have shown occasional increases and fluctuations likely due to one or more of the following conditions: (1) seasonal variation of groundwater elevations and flow conditions, (2) removal of the groundwater treatment system, and (3) redistribution of dissolved contaminant mass in the saturated porous media over time.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/17/2019
Comments: Second Semiannual 2019 Groundwater Monitoring Event occurred according to sampling schedule (every December).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/25/2020
Comments: Based on the findings of the Report, groundwater elevation and potentiometric surface data indicate potential vertical gradients between the four water-bearing zones at the Site. Concentrations of primary and other volatile organic compounds (VOCs) reported during historical sampling events were compared with the concentrations reported during the December 2019 sampling event. Analytical results indicate that VOC concentrations have generally stabilized or decreased over time. However, VOC concentrations have shown occasional increases and fluctuations likely due to one or more of the following conditions: (1) seasonal variation of groundwater elevations and flow conditions, (2) removal of the groundwater treatment system, and (3) redistribution of the dissolved contaminant mass in saturated porous media over time. Additionally, enhanced in-situ bioremediation pilot tests in the areas of wells GW-1A, GW-3, EW-6, and EW-8 have caused VOC concentrations in these wells to vary significantly.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

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Completed Document Type:	Operation and Maintenance Report
Completed Date:	04/07/2020
Comments:	2019 Operations and Maintenance Summary Report for Sub-Slab Depressurization Systems (Report) provides a summary of operation and maintenance (O&M) inspections on sub-slab depressurization systems (SSDSs) at Units 001, 002, 002, 004,006, 007 and 008. O&M activities were done in general accordance to the Work Plan for Diagnostic Testing and Operation and Maintenance Plan of Existing SSD Systems at the Former Singer Friden Site. Final document has information redacted due to confidentiality. A non-redacted version of the Report is available at DTSC Berkeley Office File Room.
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Site Characterization Report
Future Due Date:	2022
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	5 Year Review Reports
Future Due Date:	2025
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Site Characterization Report
Future Due Date:	2022
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Site Characterization Report
Future Due Date:	2022
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Access Agreement
Future Due Date:	2021
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

ENVIROSTOR:

Name:	SINGER FRIDEN
Address:	2350 AND 2450 WASHINGTON AVENUE
City,State,Zip:	SAN LEANDRO, CA 94577
Facility ID:	01360094
Status:	Certified / Operation & Maintenance
Status Date:	04/28/2003
Site Code:	200251
Site Type:	State Response
Site Type Detailed:	State Response or NPL
Acres:	20
NPL:	NO
Regulatory Agencies:	SMBRP, RWQCB 2 - San Francisco Bay, CITY OF SAN LEANDRO
Lead Agency:	SMBRP
Program Manager:	Moises Carvalho
Supervisor:	John Karachewski
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09

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Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Orphan Funds
Latitude: 37.71594
Longitude: -122.1486
APN: 0397-161-49, 077 055609200, 077 063000100, 077 063000500, 077 063000600, 077 063000700, 077 063000800, 077 063000900, 077 063004800, 077 063004900, 077 063005000, 077 063005100, 077 063005200, 077 063005300, 077 063005400, 077 063005500, 077 063005600, 077 063005700, 077 063005800, 077 063005900, 077 063006000, 077 063006100, 077 063006200, 077 063006300, 077 063006400, 077 063006500, 077 063006600, 077 063006700, 077 063006800, 077 063006900, 077 063007000, 077 063007100, 077 063007200, 077 063007300, 077 063007400, 077 063007500, 077 063007600, 077 063007700, 077 063007800, 077 063007900, 077 063008000, 077 063008100, 077 063008200, 077 063008300, 077 063008400, 077 063008500, 077 063008600, 077 063008700, 077 063008800, 077 063009000, 077 063009100, 077 063009200, 077 063009300, 077 063009400, 077 063009500, 077 063009600, 077 063009700, 077 063009800, 077 063009900, 077 063011400, 077 063011800, 077 063012700, 077 063013600, 077 063013700, 077 063014700, 077D141002500, 77-556-100, 77-556-101, 77-556-102, 77-556-103, 77-556-104, 77-556-105, 77-556-106, 77-556-107, 77-556-108, 77-556-109, 77-556-110, 77-556-111, 77-556-112, 77-556-113, 77-556-114, 77-556-72, 77-556-73, 77-556-74, 77-556-75, 77-556-76, 77-556-77, 77-556-78, 77-556-79, 77-556-80, 77-556-81, 77-556-81, 77-556-82, 77-556-83, 77-556-84, 77-556-85, 77-556-86, 77-556-87, 77-556-88, 77-556-89, 77-556-90, 77-556-91, 77-556-93, 77-556-94, 77-556-95, 77-556-96, 77-556-97, 77-556-98, 77-556-99, 77-630-10, 77-630-100, 77-630-101, 77-630-102, 77-630-103, 77-630-104, 77-630-105, 77-630-106, 77-630-107, 77-630-108, 77-630-109, 77-630-11, 77-630-110, 77-630-111, 77-630-112, 77-630-113, 77-630-115, 77-630-116, 77-630-117, 77-630-119, 77-630-12, 77-630-120, 77-630-121, 77-630-122, 77-630-123, 77-630-124, 77-630-125, 77-630-126, 77-630-128, 77-630-129, 77-630-13, 77-630-130, 77-630-131, 77-630-132, 77-630-133, 77-630-134, 77-630-135, 77-630-138, 77-630-139, 77-630-14, 77-630-140, 77-630-141, 77-630-142, 77-630-143, 77-630-144, 77-630-145, 77-630-146, 77-630-146, 77-630-148, 77-630-149, 77-630-15, 77-630-150, 77-630-151, 77-630-16, 77-630-17, 77-630-18, 77-630-19, 77-630-2, 77-630-20, 77-630-21, 77-630-22, 77-630-23, 77-630-24, 77-630-25, 77-630-26, 77-630-27, 77-630-28, 77-630-29, 77-630-3, 77-630-30, 77-630-30, 77-630-31, 77-630-32, 77-630-33, 77-630-34, 77-630-35, 77-630-36, 77-630-37, 77-630-38, 77-630-39, 77-630-4, 77-630-40, 77-630-41, 77-630-42, 77-630-43, 77-630-44, 77-630-45, 77-630-46, 77-630-47, 77-630-48, 77-630-49, 77-630-5, 77-630-50, 77-630-51, 77-630-52, 77-630-53, 77-630-54, 77-630-55, 77-630-56, 77-630-57, 77-630-58, 77-630-59, 77-630-6, 77-630-60, 77-630-61, 77-630-62, 77-630-63, 77-630-64, 77-630-65, 77-630-66, 77-630-67, 77-630-68, 77-630-69, 77-630-7, 77-630-70, 77-630-71, 77-630-72, 77-630-73, 77-630-74, 77-630-75, 77-630-76, 77-630-77, 77-630-78, 77-630-79, 77-630-8, 77-630-80, 77-630-81, 77-630-82, 77-630-83, 77-630-84, 77-630-85, 77-630-86, 77-630-87, 77-630-88, 77-630-89, 77-630-9, 77-630-90, 77-630-91, 77-630-92, 77-630-93, 77-630-94, 77-630-95, 77-630-96, 77-630-97, 77-630-98, 77-630-99, 77D-1410-25

SINGER FRIDEN (Continued) **S101272670**

Past Use:	MANUFACTURING - INDUSTRIAL MACHINERY
Potential COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE Chloroform 1,2-Dichloroethylene (cis
Confirmed COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE Chloroform 1,2-Dichloroethylene (cis
Potential Description:	OTH, SOIL, SV
Alias Name:	FRIDEN INC
Alias Type:	Alternate Name
Alias Name:	SANDPIPER CONDOS
Alias Type:	Alternate Name
Alias Name:	SINGER CO
Alias Type:	Alternate Name
Alias Name:	STAEFA CONTROL SYSTEM
Alias Type:	Alternate Name
Alias Name:	UNIVERSAL PNEUMATIC CONTROLS
Alias Type:	Alternate Name
Alias Name:	WILLIAM MATHEWS BUILDING
Alias Type:	Alternate Name
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Alias Type:	APN
Alias Name:	077 063000100
Alias Type:	APN
Alias Name:	077 063000500
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Alias Name:	077 063000700
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Alias Name:	077 063005900

SINGER FRIDEN (Continued) **S101272670**

Alias Type:	APN
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Alias Type:	APN

SINGER FRIDEN (Continued) **S101272670**

Alias Name:	077 063008800
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Alias Type:	APN
Alias Name:	77-556-110

SINGER FRIDEN (Continued) **S101272670**

Alias Type:	APN
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Alias Type:	APN
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Alias Name:	77-556-113
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Alias Name:	77-556-95
Alias Type:	APN

SINGER FRIDEN (Continued) **S101272670**

Alias Name:	77-556-96
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Alias Name:	77-556-99
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Alias Name:	77-630-119
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Alias Name:	77-630-12
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Alias Name:	77-630-121
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Alias Name:	77-630-122
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Alias Name:	77-630-123

SINGER FRIDEN (Continued) **S101272670**

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Alias Name:	77-630-149
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Alias Type:	APN

SINGER FRIDEN (Continued) **S101272670**

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SINGER FRIDEN (Continued) **S101272670**

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SINGER FRIDEN (Continued) **S101272670**

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SINGER FRIDEN (Continued) **S101272670**

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Alias Name:	77-630-99
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Alias Name:	77D-1410-25
Alias Type:	APN
Alias Name:	110033609290
Alias Type:	EPA (FRS #)
Alias Name:	P23070
Alias Type:	PCode
Alias Name:	200251
Alias Type:	Project Code (Site Code)
Alias Name:	01360094
Alias Type:	Envirostor ID Number
Alias Name:	01990002
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	06/13/2006
Comments:	Five-Year Review determined that treatment system is capturing highest groundwater VOCs and has significantly reduced VOCs but concentration trends are leveling off.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	03/13/2003
Comments:	Completed PEA for 2450 Washington Avenue. No Further Action letter issued.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	08/23/2001
Comments:	Completed RA. Startup Report approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	01/26/1998
Comments:	Offsite conveyance design and revised treatment facility design completed based on 200 gpm flow rate.
Completed Area Name:	PROJECT WIDE

SINGER FRIDEN (Continued) **S101272670**

Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 10/15/1996
Comments: Approved RAP. Final Remedy includes shallow groundwater extraction in "hot spot" areas and treatment using granular activiated carbon. Treatment system will be located outside of the condominium complex.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 09/06/1995
Comments: Completed RIFS for shallow groundwater which found PCE and TCE at elevated concentrations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/12/1992
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 08/30/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/28/1991
Comments: RI report indicates shallow groundwater has significant VOC contamination, soil samples do not show high levels of contaminants, and soil vapor samples have elevated concentrations of VOCs and ambient air quality samples showed similar values to the background levels in San Leandro.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 02/28/1991
Comments: A briefing package has been prepared and a public meeting was held to present groundwater, soil and air quality testing that was conducted at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 10/03/1988
Comments: Preliminary Assessment evaluated the chemicals used at the Singer Friden plant, waste collection systems at the plant and potential migration pathways of chemicals from the plant.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/01/2005
Comments: The treatment system removed an estimated 6.97 pounds of VOCs, and

SINGER FRIDEN (Continued) **S101272670**

discharged 5,742,300 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 010
Completed Document Type: Monitoring Report
Completed Date: 12/23/2019
Comments: Air sampling report letter summarizes indoor air samples results collect at Unit 010 in October 2019.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 004
Completed Document Type: Monitoring Report
Completed Date: 12/23/2019
Comments: Air sampling report letter summarizes air samples results collect at Unit 004 in October 2019.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 001
Completed Document Type: Monitoring Report
Completed Date: 12/23/2019
Comments: Air sampling report letter summarizes air samples results collect at Unit 001 in October 2019.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 007
Completed Document Type: Monitoring Report
Completed Date: 12/23/2019
Comments: Air sampling report letter summarizes air samples results collect at Unit 007 in October 2019.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 011
Completed Document Type: Monitoring Report
Completed Date: 12/23/2019
Comments: Air sampling report letter summarizes indoor air samples results collect at Unit 011 in September 2019.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 012
Completed Document Type: Monitoring Report
Completed Date: 12/23/2019
Comments: Air sampling report letter summarizes indoor air samples results collect at Unit 012 in September 2019.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 013
Completed Document Type: Monitoring Report
Completed Date: 12/23/2019
Comments: Air sampling report letter summarizes indoor air samples results collect at Unit 013 in September 2019.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 02/19/2020
Comments: Postcard sent to local community informing about a Community Update

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Workshop that will be held at local community center on February 29, 2020.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 02/21/2020
Comments: A community update workshop will be held at local community center on February 29, 2020. DTSC will discuss the following: August 2019 soil gas investigation and September/October 2019 indoor air testing results of certain residences; Future indoor air quality testing and steps that local residents can take to maintain personal and environmental health.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 011
Completed Document Type: Technical Report
Completed Date: 04/07/2020
Comments: Unit 011 Foundation Inspection Report summarizes the visual inspection of the concrete slab foundation performed on February 7, 2019, at Unit 011 within the Sandpiper Townhouse Complex at the Former Singer Friden Facility.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 012
Completed Document Type: Technical Report
Completed Date: 04/07/2020
Comments: Unit 012 Foundation Inspection Report summarizes the visual inspection of the concrete slab foundation performed on February 7, 2019, at Unit 012 within the Sandpiper Townhouse Complex at the Former Singer Friden Facility.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/08/2020
Comments: Five (5) junction box vaults welded on September 2020 Two (2) within the Sandpiper Townhome Complex s streets, one (1) just outside the Washington Avenue access gate to the complex, and two (2) along Washington Avenue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan
Completed Date: 12/04/2020
Comments: Site-Specific Protection Plan (SPP) provides instructions to field staff on how to implement Alameda County Shelter in Place Order and Face Coverings Order. SSP includes COVID-19 precautionary measures by informing (i) individual control measures and screenings; (ii) cleaning and disinfecting protocols; (iii) schedule for disinfecting high traffic areas and commonly used surfaces; (iv) physical distancing guidelines; (v) notification requirements of COVID-19 positive case and (vi) training requirements.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan

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Completed Date: 12/16/2020
Comments: Singer Friden Covid-19 Plan for SSDS O&M Plan (COVID-19 H&S Plan) provides sufficient information to meet State of California Executive Order N 33-20, Alameda County Order of the Health Officer No. 20-21 requirements and the minimum requirements listed on the DTSC COVID-19 Contractor Plan Reviews, version 1.0.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 03/06/2021
Comments: Fact Sheet informs the Sandpiper community about the status of environmental investigations planned at the former Singer Friden facility (Site) The Site is currently in the operation and maintenance phase of work. Supplemental environmental investigations are planned and necessary to help the DTSC better evaluate the implementation of additional cleanup measures at the Site. When implemented, additional cleanup measures will stop or reduce vapor intrusion of chemicals coming from soil and groundwater at the Site. These measures will improve indoor air quality of residences and protect human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 06/10/2020
Comments: First and Second Five-Year Review Reports Revised Update Fact Sheet provides a status of environmental cleanup efforts conducted at the former Singer Friden facility (Site) from March 2001 to May 2012. The Site is currently in the operation and maintenance phase of work, which requires DTSC to review available data every five years. The purpose of a Five-Year Review is to evaluate the implementation and performance of a remedy to determine if it is or will be protective of human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 06/10/2020
Comments: Third Five-Year Review Report Fact Sheet provides a status update of environmental cleanup efforts conducted at the former Singer Friden facility (Site) from June 2012 to July 2018. The Site is currently in the operation and maintenance phase of work, which requires DTSC to review available data every five years. The purpose of a Five-Year Review is to evaluate the implementation and performance of a remedy to determine if it is or will be protective of human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 02/26/2020
Comments: Fact Sheet hand delivered to Sandpiper community during the Community Update Workshop Meeting held on February 29, 2020

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

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Completed Document Type: Fieldwork
Completed Date: 06/26/2020
Comments: Groundwater monitoring fieldwork activities and COVID-19 precautionary measures implemented as planned.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 03/18/2021
Comments: Work Plan outlines the tasks to be performed during installation of three double-nested groundwater monitoring wells and one triple-nested soil gas monitoring well at the former Singer Friden Facility (Site). The project objective is to expand the Site s monitoring well network to further evaluate the nature and extent of volatile organic compounds (VOCs) in groundwater, soil, and soil gas throughout the Site. The Work Plan only discusses groundwater monitoring well installation. Installation of soil gas monitoring wells is described in the Site s soil gas investigation work plan (Soil Gas Investigation Work Plan, Sandpiper Townhome Complex, Former Singer Friden Facility, 2350/2450 Washington Avenue, San Leandro, California. July 2019).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/05/2020
Comments: Supplemental Groundwater Monitoring Well Location Evaluation Report (Report) provides construction design recommendations to install three dual completion groundwater monitoring well at three distinct locations at the site. Construction design recommendations are based on August/September 2019 soil gas sampling results which indicated the presence of volatile organic compounds in areas where groundwater has not been routinely monitored.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 10/15/1996
Comments: Initial Study and Negative Declaration Approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 04/28/2003
Comments: Certified Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 07/17/1992
Comments: Re-issued I&SE Determination and Order to Bicoastal.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 05/22/1991
Comments: Issued I&SE Determination and Order to the site developers (known as

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the Citation entities) and owners of office building (Wm. Mathews, Inc.).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 04/01/1988
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Decree
Completed Date: 11/18/1996
Comments: Cost Settlement with the Citation entities. Citation will pay DTSC $4,000,000 to cover all past and future liability for this Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Settlement - Administrative
Completed Date: 02/23/1993
Comments: Cost Settlement in US Bankruptcy Court regarding Bicoastal Corp. (dba Simuflite fka The Singer Company) Case No. 89-8191-BKC-8P1. DTSC receives $2,500,000. $2,250,000 applied to the Singer Friden Site and $250,000 to 3176 Porter Drive in Palo Alto. Settlement also addressed claims of the Dundee Homeowners Assoc. DTSC and Dundee also settled their claims against each other, as well as future access to the property by DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 08/18/2009
Comments: Work Order 1 was amended to include additional Tasks.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 03/29/2010
Comments: Contract 09-T9094

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 06/15/2010
Comments: CFA approved for $200,000.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 06/29/2010
Comments: ERRG contract fullt executed for $200,000 from July 1, 2010 to June 30, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 12/18/2002

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Comments: Work Order for O&M

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 03/29/2010
Comments: contract fully executed for $5,000 to June 30, 2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 06/15/2011
Comments: Contract extended till June 30, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 04/05/2010
Comments: Contract with URS Corporation (URS) to provide personnel, services, materials and equipment necessary to prepare to prepare the final report for the in-situ pilot study conducted in 2008 for the Singer Friden site

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 07/06/2007
Comments: Amendment

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 07/12/2005
Comments: Amendment #3

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 12/16/2008
Comments: Contract for Pilot Study

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 12/18/2008
Comments: Work Order for Pilot Study

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/17/2002
Comments: Amendment #3

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 03/21/2002

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Comments: Amendment #2

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 07/16/2003
Comments: Amendmemt #1

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/20/2004
Comments: Annual letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/17/2004
Comments: Amendment #2

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/30/2010
Comments: ERRG Work Order completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/22/2011
Comments: Work Order amendment extending work through June 30, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 12/10/2010
Comments: CFA Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 01/31/2011
Comments: Work order issued for Pilot Study.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 07/07/2005
Comments: Work Order to conduct soil gas sampling

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 01/25/2006
Comments: Amendment #4

Completed Area Name: PROJECT WIDE

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Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/16/2006
Comments: Annual expenditure letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 05/04/2006
Comments: Work Order for O&M

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 10/07/1998
Comments: Start Work Order

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 12/20/1999
Comments: Start Work Order

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 12/02/1999
Comments: Work Order Amendment

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 01/08/2007
Comments: Contract for Pilot Study

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 01/11/2007
Comments: Work Order for Pilot Study

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 01/26/2011
Comments: URS contract to conduct pilot study is fully executed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Responsible Agency Review
Completed Date: 10/25/2011
Comments: Comment letter sent to City of San Leandro.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 07/21/2010

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Comments: Consent letter completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 03/16/2001
Comments: Amendment

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 06/27/2012
Comments: CFA amendment to extend the contract until June 30, 2013 approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 06/29/2012
Comments: ERRG contract amendment fully executed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/29/2012
Comments: Work order amendment to continue O&M completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/29/2012
Comments: Work order to conduct SVE pilot study was issued to URS.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 06/03/2013
Comments: ERRG Master Service Agreement (MSA) 09-T9105

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 05/18/2012
Comments: CFA approved for URS SVE pilot study.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 06/26/2012
Comments: Contract to conduct soil vapor pilot study fully executed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 05/24/2011
Comments: CFA approved to continue O&M of groundwater treatment system.

Completed Area Name: PROJECT WIDE

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Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 07/24/2000
Comments: Task Order Amendment

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 04/19/2001
Comments: Amendment

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 05/15/2013
Comments: Work Order Amendment to prepare a conceptual design for a possible SVE system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 05/21/2013
Comments: Contract 11-T1105 A-1 Extension

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 07/07/2014
Comments: Work Order to continue Operation and Maintenance on the Groundwater Treatment System.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Access Agreement
Completed Date: 10/07/2014
Comments: Access agreements for two units signed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Access Agreement
Completed Date: 04/17/2014
Comments: Letter to Homeowners sent out requesting volunteers for indoor air sampling along with information fact sheets.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 05/15/2014
Comments: CFA 09-T9128 extension to January 1, 2015

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 05/29/2014
Comments: Contract 09-T9128 WO1 A-4 establishes funds to continue O&M on the GWTS.

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Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 04/16/2014
Comments: Contract to conduct indoor air sampling fully executed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 03/13/2014
Comments: Contract Fiscal Approval (CFA) 09 T9128 for indoor air sampling at the Singer Friden site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 08/14/2014
Comments: Contract signed for ERRG to develop a demolition plan for the GWTS in case the property owner gives a 30 day vacate notice.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 04/27/2015
Comments: Notification of Change in DTSC Project Manager

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 07/25/2014
Comments: Contract Fiscal Approval (CFA) of Contract 13-T3826 for preparation of a workplan to demolish the groundwater extraction treatment system. Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 01/07/2015
Comments: Work order amended to add winter sampling event.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 04/16/2015
Comments: Work order amendment to include certification of installation for sub-slab systems.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 11/06/2014
Comments: Work order authorizes continued operation of the groundwater extraction treatment system, groundwater monitoring, soil vapor monitoring, sub-slab installations at the Singer site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

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Completed Document Type:	Correspondence
Completed Date:	04/07/2015
Comments:	All tasks are complete under this contract.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date:	04/21/2015
Comments:	Amendment to add 6 additional sub-slab systems.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract
Completed Date:	05/29/2015
Comments:	Contract amendment for the installation of 6 sub-slab systems. Locations are to be determined.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Work Order
Completed Date:	03/30/2015
Comments:	Work order amendment to authorize installation of variable speed fan.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date:	07/25/2014
Comments:	Contract Fiscal Approval (CFA) of Contract 13-T3826 for demolishing the groundwater extraction treatment system.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract
Completed Date:	11/04/2014
Comments:	Contract 14-T3902 authorizes activities required to operate and maintain the groundwater extraction treatment system.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Work Order
Completed Date:	11/03/2015
Comments:	Work order issued for sub-slab system installation, GWTS O&M and GWTS Demolition.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Pilot Study/Treatability Workplan
Completed Date:	10/22/2012
Comments:	Soil Vapor Extraction Pilot Study Workplan describes extraction well placement and construction details. Sampling for Volatile Organic soil gas is included to prepare design of extraction system.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Pilot/Treatability Study Report
Completed Date:	05/20/2013
Comments:	Report documents the soil vapor extraction (SVE) pilot study

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conducted in November/December 2012. The purpose of the pilot study was to evaluate the effectiveness of SVE in one of the areas with the highest concentrations of chlorinated volatile organic compounds (VOCs) in soil gas; primarily, trichloroethene (TCE).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 08/22/2013
Comments: The update to the Public Participation Plan includes responses from community members and an updated mailing list.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/09/2012
Comments: August Monthly O and M Report 113,000 gallons treated this month.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/15/2012
Comments: System operated as required with 146, 000 gallons treated. Effluent limits were met.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/04/2012
Comments: 108,200 gallons of water were processed through the remediation system during the October 2012. They system was operated in compliance with the NPDES permit.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/20/2012
Comments: 97,900 gallons of water was processed through the remediation system during the November 2012 reporting period. All treated water met the NPDES permit limits.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/08/2013
Comments: The groundwater treatment system was operated in compliance with the NPDES permit and met all effluent limitations. 84,100 gallons were treated in December 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/26/2013
Comments: The Groundwater Treatment system treated 64,700 gallons for the month of January 2013 and no breakthrough was observed. VVOC samples were Non-detect in the effluent.

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Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/02/2013
Comments: Groundwater Extraction system operated within normal range, 60,000 gasllons were treated in February.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/02/2013
Comments: 111,000 gallons treated this month.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/03/2013
Comments: System is shut down due to problems with the liquid granulated carbon gauge.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/02/2013
Comments: GWTS operating at minimal flows, in compliance with NPDES permit.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/15/2013
Comments: 62,320 gallons of water was processed through the remediation system during the June 2013 reporting period from June 4 to June 28, 2013

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/17/2013
Comments: The groundwater treatment system operated in compliance with the NPDES permit and treated 236,000 gallons this quarter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/19/2013
Comments: GWTS is operating in compliance with the NPDES permit. VOC concentrations remain near 100 ppb in the influent and non-detect in the effluent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/05/2012
Comments: All fieldwork completed, site returned to previous condition.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice

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Completed Date:	08/27/2014
Comments:	Public Notice informing Sandpiper Townhome Complex community about meeting to be held on August 20, 2014, to explain the results of the indoor air sampling, proposed next steps in addressing this issue and answering questions from the public.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Work Notice
Completed Date:	10/26/2012
Comments:	Work Notice was ditributed to all homeowners in the subdivision, posted and placed on the HOA website.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	09/16/2013
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	08/29/2013
Comments:	109,500 gallons of water was treated during the July 2013 reporting period. The system operated in compliance with the NPDES permit.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	10/03/2013
Comments:	Technical Memorandum summarizes the August 2013 soil vapor well sampling event at the Site. The work was conducted under Work Order No. 001 of Contract No. 09-T9128 A3. Soil vapor data continues to show trichloroethene concentrations up to 200 micrograms per liter in the investigated soil vapor monitoring wells.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	09/17/2013
Comments:	August 2013 report indicates system shutdown on 8/10 due to power failure, ERRG responded 8/22. 56,900 gallons were treated in August 2013. Discharge was in compliance with the NPDES permit.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	04/01/2005
Comments:	The treatment system removed an estimated 7.14 pounds of VOCs, and discharged 5,930,700 gallons of treated groundwater into the San Leandro storm sewer system.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	08/04/2005
Comments:	1,261,700 gallons of water was treated during July 2005.

SINGER FRIDEN (Continued) **S101272670**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/01/2005
Comments: 1,815,700 gallons of water was treated during May 2005.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/30/2005
Comments: 2,050,800 gallons of water was treated during May 2005.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 08/15/2005
Comments: The purpose of the Workplan is to evaluate the potential for migration of volatile organic compounds (VOCs) into the indoor air of residential units at the Site. This will be accomplished by taking soil gas samples from ten (10) locations across the Site. Following the implementation of the Workplan, a Five-Year Report will be prepared, which will summarize the soil gas sampling results and will evaluate the effectiveness of the Site groundwater treatment and monitoring system, including capture zone analysis and recommendations for future Site activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/11/2005
Comments: 902,589 gallons of water treated in August 2005.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 09/01/1991
Comments: Public Participation Plan completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/22/2006
Comments: 274,700 gallons of water was treated during January 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/20/2005
Comments: 786,872 gallons of water was treated during September 2005.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/30/2005
Comments: 298,480 gallons of water was treated during October 2005.

Completed Area Name: PROJECT WIDE

SINGER FRIDEN (Continued) **S101272670**

Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 01/03/2006
Comments: 53,900 gallons of water was treated during November 2005.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/02/2006
Comments: 109,800 gallons of water was treated from November 31, 2005 to January 4, 2006

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/03/2006
Comments: 1,210,300 gallons of water was treated during February 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/11/2006
Comments: 1,369,700 gallons of water was treated during March 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/13/2006
Comments: 1,537,200 gallons of water was treated in April 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/03/2006
Comments: 1,537,200 gallons of water was treated in April 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/08/2006
Comments: 833,700 gallons of water treated in June 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/29/2006
Comments: 1,028,500 gallons of water was treated in August 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/02/2006
Comments: 1,527,900 gallons of water was treated from August 25, 2006 to September 18, 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

SINGER FRIDEN (Continued) **S101272670**

Completed Document Type:	Operation and Maintenance Report
Completed Date:	12/04/2006
Comments:	A total of 263,100 gallons of water was extracted and treated in October 2006.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	10/20/2005
Comments:	The treatment system removed an estimated 3.84 pounds of VOCs, and discharged 2,951,161 gallons of treated groundwater into the San Leandro storm sewer system.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	02/02/2006
Comments:	The treatment system removed an estimated 19.01 pounds of VOCs, and discharged 15,346,500 gallons of treated groundwater into the San Leandro storm sewer system.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	05/11/2006
Comments:	Total volume water treated during the first quarter was 2.8 million gallons. Estimated volatile organic compound (VOC) removal was 3.2 pounds.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	08/08/2006
Comments:	The treatment system removed an estimated 4.04 pounds of VOCs, and discharged 4,527,200 gallons of treated groundwater into the San Leandro storm sewer system.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Manual
Completed Date:	08/01/2001
Comments:	Operations and Maintenance Manual for groundwater extraction and treatment system completed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Well Completion Report
Completed Date:	02/28/1996
Comments:	1 intermediate and 3 deep monitoring wells were installed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Design - Preliminary/Intermediate
Completed Date:	02/28/1996
Comments:	5 extraction and 1 monitoring wells were installed.
Completed Area Name:	PROJECT WIDE

SINGER FRIDEN (Continued) **S101272670**

Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/28/1996
Comments: Conducted a step drawdown and constant discharge aquifer tests at extraction well EW-3.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/27/1996
Comments: During installation of the extraction and treatment system conveyance piping in December 1995, potentially contaminated soil was encountered adjacent to the excavation for the vault box in the intersection of Heathrow Place and Cornwall Way. During this removal action, 25 cubic yards of soil was removed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 09/01/1990
Comments: Fact Sheet announcing upcoming soil testing.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/02/2006
Comments: The treatment system removed an estimated 3.26 pounds of VOCs, and discharged 3,006,500 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/15/2007
Comments: The treatment system removed an estimated 13 pounds of VOCs, and discharged 12,273,600 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/27/2006
Comments: 450,100 gallons of water was treated during July 2006.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 01/18/2007
Comments: A total of 1,166,800 gallons of water was treated from October 31, 2006 to November 29, 2006. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report was initiated.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/15/2007
Comments: A total of 1,514,300 gallons of water was treated from November 29,

SINGER FRIDEN (Continued) **S101272670**

2006. to December 28, 2006. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/22/2007
Comments: A total of 1,163,000 gallons of water was treated fromDecember 28, 2006 to January 30, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/05/2007
Comments: A total of 1,144,000 gallons of water was treated from January 31, 2007 to February 28, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/01/2007
Comments: A total of 2,380,800 gallons of water was treated from February 28, 2007 to March 26, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/01/2007
Comments: The treatment system removed an estimated 4.9 pounds of VOCs, and discharged 4,687,800 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/06/2007
Comments: A total of 2,006,300 gallons of water was treated from March 30, 2007 and April 30, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 02/01/1991
Comments: The fact sheet presents results of soil, groundwater and soil gas investigations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 09/01/1993
Comments: The Fact sheet announced 30 day comment period for Engineering Evaluation and Cost analysis Report and negative declaration which includes a proposed pump and treat system.

SINGER FRIDEN (Continued) **S101272670**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/13/2006
Comments: Contract Master Service Agreement with Weiss Associates

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/16/2006
Comments: Contract Master Service Agreement with Engineering Remediation Resources Group

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/16/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 03/30/2007
Comments: The plan covers a proposed in-situ treatment process to address TCE contamination. This is only a pilot study at this time.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/06/2007
Comments: Injection of vegetable oil completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 07/02/2008
Comments: This pilot test indicates that biostimulation through emulsified oil injections and bioaugmentation with Dehalococcoides ethenogenes culture KB-1TM can be an effective remedy for the reduction of VOCs at the Site. The pilot test results also suggest that biostimulation can be implemented at the Site without significantly increasing risks associated with VOC vapor intrusion.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/18/2006
Comments: Lease Extension Executed until February 28, 2013.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/12/2007
Comments: A total of 1,512,300 gallons of water was treated from April 30, 2007 to May 30, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

SINGER FRIDEN (Continued) **S101272670**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/10/2007
Comments: A total of 1,038,400 gallons of water was treated from May 31, 2007 to June 30, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/04/2007
Comments: A total of 1,872,800 gallons of water was treated from June 20, 2007 to August 3, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/04/2007
Comments: A total of 929,500 gallons of water was treated from August 3, 2007 to September 4, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/19/2007
Comments: The treatment system removed an estimated 3.55 pounds of VOCs, and discharged 4,557,000 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/13/2004
Comments: California Regional Water Quality Control Board, San Francisco Bay Region, issued the authorization to discharge treated groundwater under the requirements of Order No. R2-2004-0055, NPDES Permit No. CAG912003 (VOC).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/07/2007
Comments: A total of 545,000 gallons of water was treated from September 5, 2007 to October 1, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/07/2007
Comments: The treatment system removed an estimated 5.56 pounds of VOCs, and discharged 3,347,800 gallons of treated groundwater into the San Leandro storm sewer system.

SINGER FRIDEN (Continued) **S101272670**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/04/2007
Comments: A total of 1,407,700 gallons of water was treated from October 2, 2007 to November 2, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/04/2008
Comments: A total of 1,057,600 gallons of water was treated from November 2, 2007 to December 3, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/04/2008
Comments: A total of 2,011,500 gallons of water was treated from December 4, 2007 to December 31, 2007. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/18/2007
Comments: Contract with Engineering Remediation Resources Group to repave the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/04/2008
Comments: In 2007, the treatment system removed an estimated 18 pounds of VOCs, and discharged 17,069,400 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/03/2008
Comments: A total of 2,552,900 gallons of water was treated from January 1, 2008 to February 4, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/22/2008
Comments: A total of 1,095,700 gallons of water was treated from February 5, 2008 to February 28, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

SINGER FRIDEN (Continued) **S101272670**

Completed Document Type: Operation and Maintenance Report
Completed Date: 05/02/2008
Comments: A total of 1,675,200 gallons of water was treated from March 1, 2008 to March 31, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/30/2008
Comments: A total of 312,580 gallons of water was treated from March 31, 2008 to April 28, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/07/2008
Comments: A total of 809,446 gallons of water was treated from April 28, 2008 to June 2, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/07/2008
Comments: A total of 774,100 gallons of water was treated from June 2, 2008 to June 27, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/03/2008
Comments: A total of 1,087,700 gallons of water was treated from June 27, 2008 to August 4, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/30/2008
Comments: A total of 1,116,800 gallons of water was treated from August 4, 2008 to September 9, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/18/2008
Comments: A total of 1,186,800 gallons of water was treated from September 9, 2008 to September 26, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan Amendment

SINGER FRIDEN (Continued) **S101272670**

Completed Date: 12/01/2008
Comments: A total of 2,184,500 gallons of water was treated from September 26, 2008 to November 4, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 01/05/2009
Comments: A total of 1,406,000 gallons of water was treated from November 4, 2008 until November 26, 2008. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/26/2009
Comments: A total of 1,760,000 gallons of water was treated from November 26, 2008, until January 6, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/05/2008
Comments: The treatment system removed an estimated 4.5 pounds of VOCs, and discharged 5,323,800 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/12/2008
Comments: The treatment system removed an estimated 1.74 pounds of VOCs, and discharged 1,896,126 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/20/2008
Comments: The treatment system removed an estimated 3.21 pounds of VOCs, and discharged 3,391,300 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/03/2008
Comments: CFA approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/29/2008

SINGER FRIDEN (Continued) **S101272670**

Comments:	Issued work order to continue operation and maintenance of the treatment system.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Pilot Study/Treatability Workplan
Completed Date:	04/14/2009
Comments:	Workplan for in-situ oil and naturally occurring bacteria injections approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Pilot/Treatability Study Report
Completed Date:	08/31/2010
Comments:	Strong reductive dechlorination and microbial activity were present in groundwater west of the injection points.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	03/12/2009
Comments:	A total of 1,326,600 gallons of water was treated from January 6, 2009 to February 20, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	04/14/2009
Comments:	A total of 335,200 gallons of water was treated from February 20, 2009 until March 4, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	03/03/2009
Comments:	In 2008, the treatment system removed an estimated 13 pounds of VOCs, and discharged 15,961,726 gallons of treated groundwater into the San Leandro storm sewer system.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	05/11/2009
Comments:	A total of 694,700 gallons of water was treated by the system during the discharge period from March 4, 2009, until March 27, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	05/11/2009
Comments:	The treatment system removed an estimated 2.091 pounds of VOCs, and discharged 2,356,500 gallons of treated groundwater into the San Leandro storm sewer system.

SINGER FRIDEN (Continued) **S101272670**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	06/17/2009
Comments:	A total of 2,064,000 gallons of water was treated by the system during the discharge period from March 27, 2009 until April 29, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	07/06/2009
Comments:	A total of 2,430,100 gallons of water was treated by the system during the discharge period from April 29, 2009 until June 9, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	01/21/2009
Comments:	NPDES application was uploaded to Geotracker.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	5 Year Review Reports
Completed Date:	05/18/2012
Comments:	According to the data reviewed, the remedy is functioning as intended by the RAP; however, VOCs in the soil gas is not addressed with the current remedy, therefore additional assessment needs to be done to address the soil gas in the central portion of the Site. The GWTS has significantly reduced the VOC concentrations in the ground water; however the leveling off of VOC concentration trends in the past several years suggests that ground water extraction with the current system alone will take many years of operation to achieve MCLs at the Site, especially in the FGU-shallow. Enhanced in-situ bioremediation pilot studies were effective in reducing VOC concentrations in groundwater, therefore, targeted in-situ methods will be effective in reducing the areas of highest VOC concentration and monitored natural attenuation (MNA) can replace active remediation for eventual MCL attainment.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	08/31/2012
Comments:	Fact Sheet of the first and second Five-Year Review Reports. The first Five-Year Review was done in June 2006 while the second Five-Year Review was done in 2012.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	05/06/2009
Comments:	In-situ injections of emulsified oil and bacteria completed.

SINGER FRIDEN (Continued) **S101272670**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/14/2009
Comments: 2 wells on 2450 Washington Avenue was abandoned.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/18/2009
Comments: Tentative NPDES Permit was issued by water Board.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/04/2009
Comments: A total of 879,000 gallons of water was treated by the system during the discharge period from June 9, 2009 until June 22, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/06/2009
Comments: The treatment system removed an estimated 3.57 pounds of VOCs, and discharged 5,373,100 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/08/2009
Comments: A total of 2,691,500 gallons of water was treated by the system during the discharge period from June 22, 2009 until July 28, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/12/2009
Comments: A total of 2,609,800 gallons of water was treated by the system during the discharge period from July 28, 2009 until August 31, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/04/2009
Comments: A total of 1,925,500 gallons of water was treated by the system during the discharge period from August 31, 2009 until September 29, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE

SINGER FRIDEN (Continued) **S101272670**

Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/04/2009
Comments: The treatment system removed an estimated 5.99 pounds of VOCs, and discharged 7,256,800 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/02/2009
Comments: A total of 1,448,300 gallons of water was treated by the system during the discharge period from September 29, 2009 to October 27, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/31/2009
Comments: A total of 238,600 gallons of water was treated by the system during the discharge period from October 27, 2009 to December 2, 2009. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/18/2010
Comments: A total of 552,000 gallons of water was treated by the system during the discharge period from December 2, 2009 to January 5, 2010. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/05/2010
Comments: A total of 2,236,000 gallons of water was treated by the system during the discharge period from February 2, 2010, to March 2, 2010. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/05/2010
Comments: A total of 934,700 gallons of water was treated by the system during the discharge period from January 5, 2010 and February 2, 2010. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/03/2010
Comments: A total of 2,217,400 gallons of water was treated by the system

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during the discharge period from March 2, 2010 to March 30, 2010. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/06/2010
Comments: A total of 2,919,500 gallons of water was treated by the system during the discharge period from March 30, 2010 to May 4, 2010. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/06/2010
Comments: A total of 1,828,900 gallons of water was treated by the system during the discharge period from May 4, 2010 to May 25,2010. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report continued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/18/2010
Comments: The treatment system removed an estimated 15.66 pounds of VOCs, and discharged 17,225,300 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/02/2010
Comments: The treatment system removed an estimated 4 pounds of VOCs, and discharged 5,388,100 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/26/2010
Comments: The treatment system removed an estimated 5.6 lbs pounds of VOCs, and discharged 7,925,700 gallons of treated groundwater into the San Leandro storm sewer system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/25/2009
Comments: Final NPDES Permit issued by Water Board.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/03/2009
Comments: Received the Notice of General Permit Coverage for Discharge from

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Water Board.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 07/19/2010
Comments: Addendum to O & M plan approved based on 5 year review recommendations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/26/2010
Comments: A total of 3,177,300 gallons of water was treated by the system during the discharge period from May 25,2010 to June 29, 2010. Implementation of follow-up actions based on the recommendations of the Five-Year Review Report was completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/03/2010
Comments: A total of 1,940,600 gallons of water was treated by the system during the discharge period from June 29, 2010 to July 27, 2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/02/2010
Comments: A total of 3,290,500 gallons of water was treated by the system during the discharge period from July 27, 2010 to August 31, 2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/30/2010
Comments: A total of 2,376,200 gallons of water was treated by the system during the discharge period from August 31, 2010 to September 28, 2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/07/2010
Comments: A total of 2,544,300 gallons of water was treated by the system during the discharge period from September 28, 2010, to October 26, 2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/24/2010
Comments: A total of 2,086,500 gallons of water was treated by the system during the discharge period from October 26, 2010, to November 30, 2010.

Completed Area Name: PROJECT WIDE

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Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/08/2011
Comments: A total of 1,388,600 gallons of water was treated by the system during the discharge period from November 30, 2010 to January 3, 2011.
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/08/2011
Comments: A total of 690,200 gallons of water was treated by the system during the discharge period from January 3, 2011, to February 1, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/25/2011
Comments: A total of 1,061,600 gallons of water was treated by the system during the discharge period from February 1, 2011 to March 1, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/28/2011
Comments: A total of 1,370,400 gallons of water was treated by the system during the discharge period from March 1, 2011 to April 1, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/13/2011
Comments: A total of 1,438,100 gallons of water was treated by the system during the discharge period from April 1, 2011 to May 3, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/09/2011
Comments: A total of 878,800 gallons of water was treated by the system during the discharge period from May 3, 2011 to May 24, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/09/2011
Comments: A total of 1,573,000 gallons of water was treated by the system during the discharge period from May 24, 2011 to June 30, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/30/2010
Comments: The treatment system removed an estimated 5.8 lbs pounds of VOCs, and discharged 7,607,300 gallons of treated groundwater into the San Leandro storm sewer system.

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Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	03/15/2011
Comments:	The total volume of treated water for the fourth quarter 2010 and during 2010 was 6,019,400 gallons and 26,940,500 gallons, respectively.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	06/07/2011
Comments:	The total volume of treated water for the first quarter 2011 was 3,122,200 gallons.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	08/16/2011
Comments:	The total volume of treated water for the second quarter 2011 was 3,889,900 gallons.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Pilot Study/Treatability Workplan
Completed Date:	06/13/2011
Comments:	Workplan to conduct in-situ injections at 2 locations approved.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	06/30/2011
Comments:	Injections completed.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Pilot/Treatability Study Report
Completed Date:	03/19/2012
Comments:	The effectiveness of the 3DMe injection pilot study and the extent and concentration of the contaminant plume near extraction wells EW-6 and EW-8 were evaluated over two post-injection quarterly groundwater monitoring events. Multiple lines of evidence of improved anaerobic or reducing conditions and degradation of chlorinated VOCs were noted. Continued groundwater monitoring will be required to assess ongoing performance.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Work Notice
Completed Date:	06/13/2011
Comments:	Work Notice for In-situ injections at two locations.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	09/07/2011
Comments:	A total of 1,300,200 gallons of water was treated by the system

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during the discharge period from June 30, 2011 to August 2, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/31/2011
Comments: A total of 1,032,000 gallons of water was treated by the system during the discharge period from August 2, 2011 to August 31, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/09/2011
Comments: A total of 776,700 gallons of water was treated by the system during the discharge period from August 31, 2011 to October 3, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/18/2011
Comments: A total of 1,082,100 gallons of water was treated by the groundwater treatment system during the discharge period from October 3, 2011 to October 31, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 01/27/2012
Comments: A total of 1,125,700 gallons of water was treated by the groundwater treatment system during the discharge period from October 31, 2011 to November 29, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 01/27/2012
Comments: A total of 1,050,600 gallons of water was treated by the groundwater treatment system during the discharge period from November 29, 2011 to January 3, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/05/2012
Comments: A total of 597,400 gallons of water was treated by the groundwater treatment system during the discharge period from January 3, 2012 to January 31, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/05/2012
Comments: A total of 691,300 gallons of water was treated by the groundwater treatment system during the discharge period from January 31, 2012, to February 27, 2012.

Completed Area Name: PROJECT WIDE

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Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/24/2012
Comments: A total of 658,700 gallons of water was treated by the groundwater treatment system during the discharge period from February 27, 2012, to March 30, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/26/2012
Comments: A total of 747,100 gallons of water was treated by the groundwater treatment system during the discharge period from March 30, 2012, to May 1, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/19/2012
Comments: A total of 197,500 gallons of water was treated by the groundwater treatment system during the discharge period from May 1, 2012, to June 1, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/08/2012
Comments: 170,700 gallons of water was processed through the remediation system during the June 2012

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/05/2012
Comments: 165,700 gallons treated this reporting period.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/15/2011
Comments: The total volume of treated water for the third quarter 2011 was 3,108,900 gallons.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/16/2012
Comments: The total volume of treated water for the fourth quarter 2011 and during 2011 was 3,258,400 gallons and 13,379,400 gallons, respectively.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/24/2012
Comments: The total volume of treated water for the first quarter 2011 was 1,947,400 gallons.

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Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/16/2012
Comments: 2nd Quarter 2012 NPDES and GWM Reports

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/19/2012
Comments: The Groundwater extraction system operated in compliance with the NPDES permit and treated 146,000 gallons of groundwater this quarter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/11/2013
Comments: The groundwater extraction treatment system operated in compliance with the NPDES discharge permit. The total volume treated in the fourth quarter was 290,200 gallons, removing 0.103 kilograms of VOC's. Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/09/2011
Comments: No volatile organic compounds were detected in any of the 4 deep wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/01/2011
Comments: Soil gas field work completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 11/30/2011
Comments: Soil Gas Work Plan to conduct soil gas sampling at 2 depths at 6 locations approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 01/27/2012
Comments: Soil gas sampling results are significantly higher than previous sampling event. Indoor air will be tested as the next step.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 02/13/2012
Comments: Indoor air sampling will be conducted inside the pool house and outdoor air samples will be collected near the pool house and at an upgradient location.

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Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/05/2012
Comments: According to the indoor air results, the screening level cancer risks are: 2.2 x 10-6 for PCE and 4.3 x 10-6 for TCE (using the new toxicity criterion for TCE). Since vinyl chloride has been detected in soil gas, assuming vinyl chloride (VC) could be present in indoor air at its reporting limit of 0.042 ug/m3, the risk for vinyl chloride would be 1.4 x 10-6. The cumulative risk for TCE, PCE and VC is 7.9 x 10-6, still within the acceptable risk range. However, sub surface soil gas source remediation need to be conducted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/09/2013
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 103,100 gallons of water was processed through the remediation system during the September 2013 reporting period from August 29 to October 1, 2013.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/18/2013
Comments: The GWTS was operated and discharge was in compliance with the NPDES permit this quarter. VOC's in the influent were around 100 ppb and non-detect in the effluent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/18/2013
Comments: 80,900 gallons of water was processed through the remediation system during the October 2013 reporting period from October 1 to November 1, 2013.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/16/2013
Comments: WTS operates in compliance with the NPDES permit. Volume treated this month was 74,900m gallons.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 01/16/2014
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 54,899 gallons of water was processed through the remediation system during the December 2013 reporting period from December 1 to December 31, 2013.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report

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Completed Date: 03/06/2014
Comments: Soil vapor results consistent with historical values, VOCs detected TCE, PCE Vinyl Chloride and DCE. Well SVM-2A the shallow motioning well was sampled but the sample is suspect due to purging problems.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/04/2014
Comments: The report summarizes the annual 2013 groundwater monitoring data collected at the Site. The results were within historic ranges for chlorinated volatile organic compounds. Naturally-occuring parameters were also measured for use in design of future remedies such as insitu-bioremediation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/13/2014
Comments: The total volume of treated water for the fourth quarter 2013 and during the 2013 monitoring period was 210,400 and 838,000 gallons, respectively. The total volume treated since the remediation system began operation on May 4, 2001, was 191,435,406 gallons.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 02/28/2014
Comments: The GWTS operated in compliance with the NPDES permit.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/06/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/07/2014
Comments: 79,500 gallons of water was processed through the remediation system during the March 2014 reporting period from February 28, 2014 to March 31,2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/14/2014
Comments: The total volume of treated water for the first quarter 2014 was 188,400 gallons. The total volume treated since the remediation system operation began was 191,623,806 gallons. 0.09 kg VOC were removed in the first quarter 2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/16/2014

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Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 26,700 gallons of water was processed through the remediation system during the May 2014 reporting period from May 1, 2014 to May 30, 2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/08/2014
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 69,700 gallons of water was processed through the remediation system during the April 2014 reporting period from March 31, 2014 to May 1, 2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 07/16/2014
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 43,600 gallons of water was processed through the remediation system during the June 2014 reporting period from May 30, 2014 to June 30, 2014. Discharge was in compliance with the NPDES permit.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/18/2014
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 17,900 gallons of water was processed through the remediation system during the July 2014 reporting period from June 30, 2014 to July 31, 2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/14/2014
Comments: Groundwater treatment system continues to treat low volumes of water with consistent concentrations of VOC’s in the influent and non-detect results in effluent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 09/23/2013
Comments: Based on a comparison of VOC concentrations measured during previous sampling events with concentrations measured during the semiannual 2013 event, VOC concentrations have generally decreased over time. However, VOC concentrations in many of the Site s wells have fluctuated over time and are likely due to one or more of the following conditions: seasonal variation of groundwater elevations, changing groundwater flow dynamics as extraction well pumps are turned off or on, and redistribution of dissolved contaminant mass over time. Additionally, enhanced in-situ bioremediation pilot tests in the areas of wells GW-1A, GW-3, EW-6, and EW-8 have caused VOC concentrations in these wells to vary significantly.

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Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	03/19/2014
Comments:	Meeting with Sandpiper HOA to discuss indoor air sampling.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	04/16/2014
Comments:	The NPDES Discharge Permit NOI was sent in on time.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Workplan
Completed Date:	06/30/2014
Comments:	Work plan includes detailed procedures for indoor air sampling to be conducted in the townhomes.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Health & Safety Plan
Completed Date:	06/24/2014
Comments:	HASP is included as an appendix to the Indoor Air Workplan

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Work Notice
Completed Date:	06/26/2014
Comments:	Work Notice to Sandpiper community informing that indoor air sampling will be conducted at all residents homes who have allowed access for sampling.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	11/17/2014
Comments:	The total volume of treated water for the third quarter 2014 was 49,300 gallons. The total volume treated since the remediation system operation began was 191,844,006 gallons.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	02/18/2015
Comments:	GWTS operated in compliance with the NPDES permit and quantity discharged was within normal flow rates. System has removed over 191 million gallons and over 260 pounds of VOC’s to date.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	09/25/2015
Comments:	Indoor air results from both the summer 2014 and the winter of 2015 are included. There is no clear seasonal effect on samples. concentrations remain above screening levels. Three homes which have sub-slab systems install have concentration below screening levels.

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Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 08/21/2014
Comments: Fact Sheet informing Sandpiper Townhome Complex community about meeting to be held on August 20, 2014, to explain the results of the indoor air sampling, proposed next steps in addressing this issue and answering questions from the public.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/09/2014
Comments: Treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 19,700 gallons of water was processed through the remediation system during the August 2014 reporting period from July 31, 2014 to September 5, 2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/13/2014
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 11,700 gallons of water was processed through the remediation system during the September 2014 reporting period from September 5, 2014 to October 1, 2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 11/13/2014
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 12,700 gallons of water was processed through the remediation system during the October 2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/22/2014
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 16,300 gallons of water was processed through the remediation system during the November 2014 reporting period from October 31, 2014, to December 1, 2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 01/26/2015
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 23,100 gallons of water was processed through the remediation system during the December 2014 reporting period from December 1, 2014, to December 31, 2014.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 08/26/2015

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Comments:	Workplan for the demolition of the Groundwater Treatment System
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	04/01/2016
Comments:	Demolition of groundwater extraction and treatment system complete. Site restored by paving and refencing.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	09/08/2014
Comments:	Design is approved by Registered Professional Engineer as proposed. Confirmation sampling required after installation to ensure system operation is adequate.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Risk Assessment Report
Completed Date:	04/07/2015
Comments:	Risk assessment conducted by DTSC's Human & Ecological Risk Office.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Design/Implementation Workplan
Completed Date:	08/25/2014
Comments:	Site-Specific Health and Safety Workplan for Vapor Control System/Sub-Slab Depressurization Systems installed at the Site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	08/26/2014
Comments:	Schedule did not allow for June sampling
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	09/15/2015
Comments:	Data looks consistent with historical trends. Well EW 6 continues to increase.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Pilot Study/Treatability Workplan
Completed Date:	12/15/2014
Comments:	SVE would remove contaminants but it is not capable of providing vapor intrusion mitigation for residents.
Completed Area Name:	Indoor Air
Completed Sub Area Name:	Unit 001
Completed Document Type:	Remedial Action Completion Report
Completed Date:	06/05/2015
Comments:	Certification letter summarizes sub-slab depressurization system design, installation, and completion performed from August 2014 through September 2014 at Unit 001, within the Sandpiper Townhome

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Complex.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 03/16/2015
Comments: Final diagnostic plan to evaluate sub-slab system performance under varying conditions.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/17/2015
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 3,300 gallons of water was processed through the remediation system during the January 2015 reporting period from January 1, 2015, to January 31, 2015 and 3,100 gallons during the February reporting period from February 1, 2015 through February 28, 2015. The low flow totals for January and February were a result of system down time due to the malfunctioning uninterruptable power supply, which was replaced on February 19, 2015.
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/17/2015
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 3,300 gallons of water was processed through the remediation system during the January 2015 reporting period from January 1, 2015, to January 31, 2015 and 3,100 gallons during the February reporting period from February 1, 2015 through February 28, 2015. The low flow totals for January and February were a result of system down time due to the malfunctioning uninterruptable power supply, which was replaced on February 19, 2015.
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/11/2015
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 20,400 gallons of water was processed through the remediation system during the March 2015 reporting period from March 3, 2015, to March 27, 2015.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/11/2015
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 14,800 gallons during the April reporting period from March 27, 2015 through April 28, 2015.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report

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Completed Date: 06/18/2015
Comments: Data is similar to previous results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/26/2015
Comments: Data within normal ranges

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/18/2015
Comments: Soil vapor results continue to show results for TCE, PCE and VC.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 003
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/05/2015
Comments: Certification letter summarizes sub-slab depressurization system design, installation, and completion performed in November 2014 at Unit 003, within the Sandpiper Townhome Complex.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 002
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/05/2015
Comments: Certification letter summarizes sub-slab depressurization system design, installation, and completion performed from August 2014 through NOvember 2014 at Unit 002, within the Sandpiper Townhome Complex.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 05/11/2015
Comments: Diagnostic testing conducted on Unit 002. Follow up indoor air sampling will be conducted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/26/2015
Comments: Operation within normal ranges

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/02/2015
Comments: The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 17,100 gallons of water was processed through the remediation system during the August 2015 reporting period from July 31, 2015 to September 1, 2015.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report

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Completed Date:	10/02/2015
Comments:	The treated groundwater discharge line s flow meter and totalizer (FI-FQI-TW) recorded that 12,400 gallons of water was processed through the remediation system during the September 2015 reporting period from to September 1, 2015 to September 30, 2015. The system was turned off on September 30, 2015
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Pre-HARP Form
Completed Date:	10/30/2014
Comments:	PRE-HARP signed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Work Order
Completed Date:	01/29/2015
Comments:	Contract 14-T3902 WO 01 A1 to authorize operation and maintenance of Groundwater Extraction Treatment System (GWTS), Soil Vapor Extraction (SVE) and sub-slab system installation.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date:	10/05/2015
Comments:	Contract Fiscal Approval (CFA) of Contract 14-T3902 A2 adds fund for (i) operation and maintenance of the groundwater extraction treatment system (GWTS), demolition of GWTS and installation of additional sub-slab depressurization systems.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract
Completed Date:	11/03/2015
Comments:	Contract 14-T3902 A2 authorizes activities required for (i) operation and maintenance of the groundwater extraction treatment system (GWTS), demolition of GWTS and installation of additional sub-slab depressurization systems.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Work Order
Completed Date:	06/25/2014
Comments:	Contract 09-T9128 Work Order 1 is for operating and maintaining groundwater treatment system at the Singer Friden Site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Orphan Site Designation
Completed Date:	02/24/2016
Comments:	DTSC determined that there are no viable responsible parties for this site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	PRP Identification Memorandum
Completed Date:	02/16/2016

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Comments:	PRP ID Memo indicates that there are no viable responsible parties at this site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract
Completed Date:	04/15/2014
Comments:	Contract 13-T3786
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Work Order
Completed Date:	04/17/2014
Comments:	This Work Order 1 is for conducting indoor air sampling at the Singer Friden Site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date:	09/30/2014
Comments:	Contract Fiscal Approval (CFA) of Contract 14-T3902 for the following activities: (i) operation and maintenance of the groundwater extraction treatment system; (ii) groundwater and soil gas sampling; (iii) and indoor air confirmation sampling after sub-slab system installation.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date:	02/20/2015
Comments:	Contract Fiscal Approval (CFA) of Contract 14-T3865 time extension.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract
Completed Date:	04/17/2014
Comments:	Contract 09-T9128 Amendment A3
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Post HARP Form
Completed Date:	02/17/2017
Comments:	Site visit 2017-02-13. Post-HARP signed 2017-02-17.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Access Agreement
Completed Date:	02/04/2016
Comments:	Access agreement to install a SSDS at Unit 002
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Post HARP Form
Completed Date:	05/01/2017
Comments:	Uploaded 5/1.
Completed Area Name:	PROJECT WIDE

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Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Field Order
Completed Date: 07/29/2014
Comments: Field order to allow relocation of one or more residents in the Sandpiper Townhomes into temporary housing.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 12/30/2014
Comments: Contract 13-T3786 A-1 adds indoor air sampling activity.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 07/06/2016
Comments: Contract extension until June 30, 2017

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 08/21/2014
Comments: Contract 14-T3865 WO 01 to authorize demolition of groundwater treatment system at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Access Agreement
Completed Date: 09/02/2014
Comments: Access Agreement to residential properties within Sandpiper Townhome Complex

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 06/21/2017
Comments: Contract amendment to add money and extend the contract through September 30, 2018. Work includes continued groundwater monitoring and as-needed installation of sub-slab systems.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 02/13/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 04/23/2018
Comments: Work Order issued for semiannual groundwater monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/30/2018
Comments: Dundee Homeowners Association approval for DTSC to install

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remediation systems at residences within the Sandpiper Condominium Complex

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 002
Completed Document Type: Correspondence
Completed Date: 08/15/2017
Comments: One indoor air sample were collected at Unit 002. Based on the indoor air sampling results, tetrachloroethene was found at a concentration above the residential air screening level.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 10/10/2018
Comments: Contract 17-T4416 Work Order No, 1 was fully executed on October 10, 2018. The Work Order directs ERRG to perform indoor air and sub-slab depressurization system effluent sampling; install floor sealant and air sealing in a residence to determine the effectiveness in reducing volatile organic compound concentrations and prepare a work documenting the work; and conduct operation and maintenance of sub-slab depressurization systems installed at individual residences; conduct semi-annual groundwater monitoring; and prepare and implement a workplan for a soil gas survey.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 06/06/2019
Comments: Hazard Appraisal and Recognition Plan Post Site Visit conducted on June 5, 2019 to verify proposed soil gas monitoring well locations.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 007
Completed Document Type: Correspondence
Completed Date: 09/17/2018
Comments: Informational letter indicating the new assigned project manager.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Request for Tribal Outreach
Completed Date: 06/18/2019
Comments: The Native American Heritage Commission conducted a search of the Sacred Land File with negative results for the area of the Singer Friden Site in San Leandro (Site). Letters were mailed to the seven Tribal contacts identified and included two maps locating the Site as attachments. The DTSC Office of Environmental Equity (OEE) received no requests for consultation regarding this Site. Thus, DTSC OEE considered he Tribal outreach and engagement completed and approved proceeding with the planned site investigation activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/16/2019
Comments: Post card inviting local residents to participate in an Open House event. During this event DTSC will provide results of an indoor air

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monitoring survey conducted at their homes and explain the performance of the sub slab depressurization systems installed in homes.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 002
Completed Document Type: Correspondence
Completed Date: 09/17/2018
Comments: Informational letter indicating the new assigned project manager.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 005
Completed Document Type: Correspondence
Completed Date: 09/17/2018
Comments: Informational letter indicating the new assigned project manager.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/19/2015
Comments: NPDES Report submitted to RWQCB per the permit requirements.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/10/2015
Comments: The total volume of treated water for the second quarter of 2015 was 43,700 gallons. The total volume treated since the remediation system began operation on May 4, 2001, was 191,966,606 gallons. The system operated in compliance with requirements of NPDES VOC and Fuel General Permit No. NPDES Permit No. CAG912002, Order No. R2-2012-0012. Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 10/20/2015
Comments: Report was prepared by ERRG on behalf of DTSC. The Report documents locations where samples were collected. Analytical results to document compliance with discharge requirements for system flow and mass removal data; and operational status of the treatment system and observations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/20/2015
Comments: Groundwater Extraction and Treatment Plant Demolition complete. Site restored.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 11/06/2015
Comments: Work Notice issued for GWTS Demolition.

Completed Area Name: PROJECT WIDE

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Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	02/24/2016
Comments:	Final NPDES Report fro Groundwater extraction and Treatment System
Completed Area Name:	Indoor Air - MULTIPLE SITES
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	05/31/2016
Comments:	March 2016 indoor air sampling and SSD diagnostic. Elevated moisture was found in all SSDs.
Completed Area Name:	Indoor Air - MULTIPLE SITES
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation and Maintenance Report
Completed Date:	07/19/2016
Comments:	Follow up sampling on June 20, 2016 (after SSDs were dried out) in Unit 002 found reduced levels of tetrachloroethene.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	01/21/2015
Comments:	Notice for winter round of indoor air sampling at Sandpiper Condominiums.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	09/12/2018
Comments:	Groundwater monitoring had not been performed at the Site since 2015. Comparison of results from the second quarter 2018 groundwater monitoring event with historical data show that the volatile organic compounds (VOC) tetrachloroethene, trichloroethene and vinyl chloride have remained undetectable (< 0.5 micrograms per liter) in samples collected from the deep and intermediate zone aquifer, while results from the shallow aquifer show that the concentrations of these VOCs have stabilized, decreased or increased over time. The reasons for this different behavior in the shallow aquifer are likely phenomena associated with historical in-situ remediation efforts implemented at the Site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	05/14/2018
Comments:	The 2018 groundwater monitoring event was completed. The depth to groundwater was measured in 20 monitoring wells. Groundwater samples were collected from the 20 monitoring wells and 9 former extraction wells using passive diffusion bags. Volatile organic compound (VOC) concentrations reported during past groundwater sampling events were compared to those detected during the 2018 event. The comparison indicated that VOC concentrations have generally stabilized or decreased; however, VOC concentrations in may of the Site wells have fluctuated over time.
Completed Area Name:	Indoor Air

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Completed Sub Area Name: Unit 009
Completed Document Type: Fieldwork
Completed Date: 06/04/2018
Comments: Indoor air sampling completed in unit prior to proceeding with Retro Coat pilot study.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 009
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 11/15/2019
Comments: Letter report describes the activities conducted to implement a membrane coating (Retro-Coat) pilot study (Pilot Study) at the Unit 009, Former Singer-Friden Facility. Letter report describes findings of the Pilot Study.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 008
Completed Document Type: Correspondence
Completed Date: 09/17/2018
Comments: Informational letter indicating the new assigned project manager.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 001
Completed Document Type: Correspondence
Completed Date: 09/17/2018
Comments: Informational letter indicating the new assigned project manager.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 008
Completed Document Type: Correspondence
Completed Date: 09/19/2018
Comments: Correspondence to Unit 008 regarding 7-day passive indoor air sampling results.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 004
Completed Document Type: Correspondence
Completed Date: 09/17/2018
Comments: Informational letter indicating the new assigned project manager.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 006
Completed Document Type: Correspondence
Completed Date: 09/17/2018
Comments: Informational letter indicating the new assigned project manager.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 009
Completed Document Type: Correspondence
Completed Date: 09/17/2018
Comments: Informational letter indicating the new assigned project manager.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 05/21/2018
Comments: Contract 14-T3902 AM4 - Work Order # 001 Amendment # 006 - Work Order

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related to implementation of Retro-Coat Pilot Study at Unit 009.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/17/2018
Comments: Informational letter indicating the new assigned project manager.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 003
Completed Document Type: Correspondence
Completed Date: 09/17/2018
Comments: Informational letter indicating the new assigned project manager.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 03/16/2018
Comments: Fully-executed Contract 17-T4416 between DTSC and Engineering/Remediation Resource Group, Inc. to conduct indoor air monitoring, install floor sealant and sub-slab depressurization systems, perform groundwater injection and pre- and post-injection soil gas and groundwater monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 09/27/2018
Comments: Contract 17-T4416 Amendment 1 fully executed. The Amendment adds additional activities, including groundwater monitoring, a soil gas survey, delineation o the volatile organic compound plume using a membrane interface probe, operation and maintenance of a sub-slab depressurization system installed at individual residences at the Site, and indoor air monitoring.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 01/23/2020
Comments: Work Order Amendment to Engineering/Remediation Resources Group to perform building foundation inspection in up to 25 townhome units at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 08/26/2019
Comments: Revised HARP reviewed by DTSC IH and approved by DTSC IH and Unit Chief.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 007
Completed Document Type: Correspondence
Completed Date: 01/24/2019
Comments: December 22, 2017 Certification Letter will be updated with information from 2018 activities at Unit 007, including: (1) Crack sealing of exposed concrete slab within living quarters of the unit;

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(2) Changing out one of the two SSDS fans to a variable speed fan; (3) Installation of additional fan noise dampening materials; and (4) Post SSDS modification indoor air sample results.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 008
Completed Document Type: Correspondence
Completed Date: 01/24/2019
Comments: February 1, 2018 Certification Letter will be updated with information from 2018 activities at Unit 008, including: (1) Changing out the SSDS fan to a variable speed fan; and (2) Post SSDS modification indoor air sample results.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/20/2020
Comments: Correspondence provides response to a Sandpiper Townhome Complex s resident about environmental hazard disclosure requirements of properties located in the Sandpiper Townhome Complex. Due to confidentially, correspondence s addressee information is redacted.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 006
Completed Document Type: Correspondence
Completed Date: 05/18/2017
Comments: One indoor air sample were collected at Unit 006. Based on the indoor air sampling results, all primary VOCs (TCE, PCE and VC) were found at a concentration lower than the residential air screening level.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 012
Completed Document Type: Correspondence
Completed Date: 01/13/2020
Comments: One indoor air sample was collected from Unit 012 s bathroom. Based on the indoor air sampling results, trichloroethene and tetrachloroethene were found at levels above the residential air screening levels.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/20/2020
Comments: Correspondence and consent form sent to Sandpiper Townhome Complex residents offering indoor air sampling on a voluntary basis

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 001
Completed Document Type: Correspondence
Completed Date: 01/13/2020
Comments: Two samples were collected from Unit 001. One sample (indoor air sample) was collected from Unit 001 bathroom. The second sample (effluent sample) was collected outside at the sub-slab depressurization system s exhaust pipe. Based on the October 2019 indoor air sampling results, none of the chemicals of concern was found at your residence indoor air with concentrations above the residential air screening level.

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Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 007
Completed Document Type: Correspondence
Completed Date: 01/29/2019
Comments: DTSC letter conveying indoor air sampling results to resident. Based on the December 2018 and historical indoor air quality testing results, the fan system has been effective in maintaining the TCE indoor air concentration in the Unit 007 below residential screening levels. PCE indoor air concentrations have been above the DTSC residential screening level; however, the fan system has been effective in keeping the exposure, risk from PCE in indoor air at Unit 007 within the acceptable cancer risk range.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 06/17/2020
Comments: Contract 19-T4790 with RMD. Contract scope of work consist of two tasks. Task 1 - Technical Consultative Services and Task 2 - Environmental Noise Assessment for Soil Vapor Extraction System

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 010
Completed Document Type: Correspondence
Completed Date: 01/13/2020
Comments: Two indoor air samples were collected from Unit 010 bathroom. The two indoor air samples consisted of one primary and one duplicate sample. The duplicate sample was used to confirm the validity of the primary sample results. Based on the indoor air sampling results, trichloroethene was found at a concentration above the residential air screening level.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 004
Completed Document Type: Correspondence
Completed Date: 01/13/2020
Comments: Three samples were collected from Unit 004. Two samples (indoor air) were collected from Unit 004 s bathroom and living room. The third sample (effluent sample) was collected outside at the sub-slab depressurization system s exhaust pipe. Based on the October 2019 indoor air sampling results, only the chemical of concern vinyl chloride was found at your residence indoor air with concentrations above the residential air screening level.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 007
Completed Document Type: Correspondence
Completed Date: 01/13/2020
Comments: A total of five samples were collected at Unit 0007. Two indoor air samples were collected from Unit 007 s bathroom and kitchen. Two effluent samples were collected at Unit 007 s fan system s exhaust pipes along the rear southwestern exterior wall of your home, and the northeastern wall of your home s garage. One ambient air sample was collected at Unit 007 s back yard. Based on the October 2019 indoor air sampling results, the only chemical of concern found at Unit 007 with concentrations above the residential air screening level (0.46 micrograms per cubic meter [g/m3]) was tetrachloroethene.

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Completed Area Name:	Indoor Air
Completed Sub Area Name:	Unit 013
Completed Document Type:	Correspondence
Completed Date:	01/13/2020
Comments:	One indoor air sample was collected from Unit 013 s bathroom. Based on the indoor air sampling results, none of the primary chemicals of concern (trichloroethene, tetrachloroethene and vinyl chloride) was found at your residence s indoor air above the residential air screening level.

Completed Area Name:	Indoor Air
Completed Sub Area Name:	Unit 009
Completed Document Type:	Correspondence
Completed Date:	01/13/2020
Comments:	Pilot Study involved collection soil vapor, sub-slab vapor and indoor air samples before and after the application of Land Science Technologies Retro-Coat on the exposed concrete slab foundation of Unit 009.

Completed Area Name:	Indoor Air
Completed Sub Area Name:	Unit 009
Completed Document Type:	Correspondence
Completed Date:	08/15/2017
Comments:	Two indoor samples were collected at Unit 009. One indoor air sample was collected when the residence was unoccupied and HVAC off, and the second sample was collected under normal occupancy and HVAC on. Under normal occupancy and HVAC operation, all primary VOCs were below DTSC's health-based screening levels. The results while the house was unoccupied and HVAC off (i.e. no air exchange) do not indicate a need for an active vapor mitigation system

Completed Area Name:	Indoor Air
Completed Sub Area Name:	Unit 006
Completed Document Type:	Correspondence
Completed Date:	09/06/2017
Comments:	One indoor air sample were collected at Unit 006. Based on the indoor air sampling results, tetrachloroethene was found at a concentration above the residential air screening level.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Work Order
Completed Date:	07/09/2020
Comments:	Contract 19-T4790 Work Order # 1 with RMD. Work Order #1 scope of work consists of (i) Review, analyze, and comment on existing data. (ii) Evaluate environmental noise emission from proposed Soil Vapor Extraction (SVE) system; and (iii) Propose environmental noise emission reduction measures for SVE systems to be installed.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Field Order
Completed Date:	07/25/2019
Comments:	Field Order No 1 includes maintenance and noise dampening to be conducted at the former groundwater extraction treatment system vaults that are still in place at the Singer Friden site.

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Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 012
Completed Document Type: Correspondence
Completed Date: 05/29/2020
Comments: Unit 012 Building Foundation Inspection Report Cover letter. Confidential information redacted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 02/10/2020
Comments: Hazard Appraisal and Recognition Plan Post Site Visit conducted on February 7, 2020 at two residential units (Units 011 and 012).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Field Order
Completed Date: 08/27/2020
Comments: The purpose of this field order is to repair the former groundwater extraction treatment system (GWETS) well-vaults.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 004
Completed Document Type: Correspondence
Completed Date: 07/11/2019
Comments: Correspondence sent to Unit 004 home owner. Confidential information redacted and attachments not included.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 006
Completed Document Type: Correspondence
Completed Date: 07/11/2019
Comments: Correspondence sent to Unit 006 home owner. Confidential information redacted and attachments not included.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 10/12/2020
Comments: Contract 17-T4306 A1 extended until October 31, 2021

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 011
Completed Document Type: Correspondence
Completed Date: 01/13/2020
Comments: Two indoor air samples were collected from Unit 011 s bathroom. The two indoor air samples consisted of one primary and one duplicate sample. The duplicate sample was used to confirm the validity of the primary sample results. Based on the indoor air sampling results, trichloroethene was found at a concentration above the residential air screening level.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 10/01/2018
Comments: Contract 14-T3902 expired on September 30, 2018. DTSC issued a stop

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work letter for Engineering/Remediation Resources Group, Inc. to immediately cease all work under the this contract and to submit a final invoice.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 08/29/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 10/20/2020
Comments: Contract 17-T4416 Work Order No. 2 with ERRG. Work Order No. 2 scope of work consists of: i) Dual-completion groundwater monitoring well and nested soil gas monitoring well installation workplan. ii) Installation of three dual-completion groundwater monitoring wells and one nested soil gas monitoring well. iii) Survey of installed dual-completion groundwater monitoring wells. iv) Post-construction reporting.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/06/2019
Comments: Work Order Amendment to Engineering/Remediation Resources Group for geophysical survey of four limited areas. The combined geophysical survey areas are approximately 21,600 square feet.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 011
Completed Document Type: Correspondence
Completed Date: 05/29/2020
Comments: Unit 011 Building Foundation Inspection Report Cover letter. Confidential information redacted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Field Order
Completed Date: 09/11/2019
Comments: The purpose of Field Order 2 is to clean underground utility paint markings using a hot-water pressure washer. Spray paint with black and/or gray hue (spray-paint) may be applied over paint markings, if necessary, if cleaning was unsuccessful using the hot-water pressure washer.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 007
Completed Document Type: Correspondence
Completed Date: 02/18/2021
Comments: Email sent to Unit 007 property owner informing status of sub-slab depressurization annual operation and maintenance schedule/activities. Property owner information redacted due to confidentiality.

Completed Area Name: Indoor Air

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Completed Sub Area Name: Unit 008
Completed Document Type: Correspondence
Completed Date: 02/18/2021
Comments: Email sent to Unit 008 property owner informing status of sub-slab depressurization annual operation and maintenance schedule/activities. Property owner information redacted due to confidentiality.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 006
Completed Document Type: Correspondence
Completed Date: 02/18/2021
Comments: Email sent to Unit 006 property owner informing status of sub-slab depressurization annual operation and maintenance schedule/activities. Property owner information redacted due to confidentiality.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 004
Completed Document Type: Correspondence
Completed Date: 04/08/2021
Comments: Not reported

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 001
Completed Document Type: Correspondence
Completed Date: 04/08/2021
Comments: Not reported

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 002
Completed Document Type: Correspondence
Completed Date: 04/08/2021
Comments: Not reported

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 008
Completed Document Type: Correspondence
Completed Date: 04/08/2021
Comments: Not reported

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 003
Completed Document Type: Correspondence
Completed Date: 04/08/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 04/06/2021
Comments: Not reported

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 001
Completed Document Type: Correspondence
Completed Date: 02/18/2021

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Comments:	Email sent to Unit 001 property owner informing status of sub-slab depressurization annual operation and maintenance schedule/activities. Property owner information redacted due to confidentiality.
Completed Area Name:	Indoor Air
Completed Sub Area Name:	Unit 004
Completed Document Type:	Correspondence
Completed Date:	02/18/2021
Comments:	Email sent to Unit 004 property owner informing status of sub-slab depressurization annual operation and maintenance schedule/activities. Property owner information redacted due to confidentiality.
Completed Area Name:	Indoor Air
Completed Sub Area Name:	Unit 002
Completed Document Type:	Correspondence
Completed Date:	02/18/2021
Comments:	Email sent to Unit 002 property owner informing status of sub-slab depressurization annual operation and maintenance schedule/activities. Property owner information redacted due to confidentiality.
Completed Area Name:	Indoor Air
Completed Sub Area Name:	Unit 003
Completed Document Type:	Correspondence
Completed Date:	02/18/2021
Comments:	Email sent to Unit 003 property owner informing status of sub-slab depressurization annual operation and maintenance schedule/activities. Property owner information redacted due to confidentiality.
Completed Area Name:	Indoor Air
Completed Sub Area Name:	Unit 006
Completed Document Type:	Correspondence
Completed Date:	04/08/2021
Comments:	Not reported
Completed Area Name:	Indoor Air
Completed Sub Area Name:	Unit 007
Completed Document Type:	Correspondence
Completed Date:	04/08/2021
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	02/25/2020
Comments:	Soil gas analytical results for the 70 soil gas samples collected from the 35 nested soil gas monitoring wells installed for this project indicate widespread detections of trichloroethene (TCE) and tetrachloroethene (PCE) across the Site on both investigated depths, 5 and 15 feet below ground surface. The potential indoor air concentrations resulting from measured soil gas concentrations were calculated by considering a generic attenuation factor of 0.03. The results indicate that predicted indoor air concentrations of PCE and TCE may exceed the residential air screening levels in the vicinity

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of most of the soil gas monitoring wells. The risks of volatile organic compounds vapor intrusion (VI) into nearby buildings may also be augmented by the presence of preferential VI pathways such as subsurface utility corridors and cracks in concrete building foundations. These results indicate that further investigation of site conditions is warranted to further evaluate potential risks to human health at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 07/30/2019
Comments: The Soil Gas Investigation Workplan provides the means and methods to conduct a soil gas investigation for volatile organic compounds at the Site and was developed based on guidelines provided by the 2015 DTSC Advisory for Active Soil Gas Investigations.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 009
Completed Document Type: Fieldwork
Completed Date: 08/21/2018
Comments: Passive indoor air sampling deployment and building survey.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 008
Completed Document Type: Monitoring Report
Completed Date: 09/14/2018
Comments: This letter report summarizes the air sampling event performed on May 29 through June 5, 2018 at Unit 008 within the Sandpiper Townhouse Complex. The tetrachloroethene (PCE) concentration detected during the May 2018 event was similar to the concentrations detected during the May and December 2017 air sampling events. The concentrations have not changed significantly since the sub-slab depressurization system was installed in October 2017. ERRG, DTSC's contractor, recommended in the report that a variable speed fan or second fan be installed to increase suction and reduce PCE concentrations in indoor air.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/18/2018
Comments: Waste manifest of excavation spoils from installation of a sub-slab depressurization system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/23/2015
Comments: The Indoor Air Sampling Report is not available on the EnviroStor because it contains confidential information. The public may review a bounded copy of the Report at the DTSC Berkeley Office File Room (Public Repository). Confidential information will be redacted before the Report become available for public review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

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Completed Document Type: Fieldwork
Completed Date: 12/19/2018
Comments: Site reconnaissance with DTSC SM and GSU staff.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 007
Completed Document Type: Monitoring Report
Completed Date: 01/29/2019
Comments: This letter report summarizes the air sampling event performed from November 13, 2017, through December 13, 2018, at Unit 007 within the Sandpiper Townhouse Complex at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 02/27/1996
Comments: During installation of the extraction and treatment system conveyance piping in December 1995, potentially contaminated soil was encountered adjacent to the excavation for the vault box in the intersection of Heathrow Place and Cornwall Way. Pursuant to Task Order No. 2-085-11.0-200251 issued under contract No. 91-T0085, DTSC retained URS Consultants, Inc. (URS) to perform a soil removal action at the Singer Friden site. Soil excavation extended to approximately 5 feet below grade surface. The soil quantity to be removed was estimated to be approximately 25 cubic yards. The excavation was backfilled on February 11 and 12, 1996. Class 2 gravel fill was placed in the excavation in approximately 8-inch lift and compacted with a hand-held Wacker. Final grading and asphalting was completed on February 14, 1996.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/04/2019
Comments: Letter report summarizes operation and maintenance activities performed in November and December of 2018 on the sub-slab depressurization systems at the Former Singer-Friden Facility.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 008
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/09/2019
Comments: Letter report documents sub-slab depressurization system design, installation, and modifications at Unit 008 at the Former Singer-Friden Facility.

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 007
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/09/2019
Comments: Letter report documents sub-slab depressurization system design, installation, and modifications at Unit 007 at the Former Singer-Friden Facility.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice

SINGER FRIDEN (Continued) **S101272670**

Completed Date: 08/01/2019
Comments: Work Notice informing the community about the upcoming subsurface geophysical survey (geophysical survey) and soil gas investigation that will be conducted in the Singer Friden, Sandpiper Townhome Complex. Geophysical survey and soil gas investigation activities are scheduled from August 19, 2019 to September 6, 2019 between the hours of 8:00 A.M. and 5:00 P.M., weather permitting.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/18/2020
Comments: Fieldwork activities completed on December 18, 2020

Completed Area Name: Indoor Air
Completed Sub Area Name: Unit 009
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 06/11/2018
Comments: The work plan describes the permitting and utility locate activities, pilot study sampling activities, Land Science Technologies Retro-Coat application, waste management procedures, and reporting requirements.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 01/27/2020
Comments: Third Five-Year Review (FYR) Report consisted of a review of relevant documents, including operation and maintenance records, pilot study reports and monitoring data from June 2012 to July 2018. From June 2013 to June 2015, the groundwater sampling frequency changed from quarterly to a semi-annual basis. Seventeen wells were sampled in the spring of each year and 21 wells in the fall. After June 2015, groundwater monitoring did not resume until the groundwater monitoring event in May 2018. Third FYR Report recommended the following: i) Conduct an additional soil gas survey at the Site. ii) Prepare an amendment to 1996 RAP to: (a) change the selected groundwater remedy for the Site from groundwater extraction and treatment to enhanced in-situ bioremediation; and (b) add soil vapor extraction (SVE) and treatment as part of the remedy to address volatile organic compounds (VOC)-impacted soil gas. iii) Install an SVE system to extract soil gas from portions of the Site where soil gas surveys reported soil gas concentrations above federal and state screening levels. iv) Conduct groundwater sampling in the Site s monitoring well network on a semi-annual basis. v) Implement enhanced in-situ bioremediation at hot spots areas of the VOC-impacted groundwater plume and at areas downgradient of the hot spots areas. vi) Implement an expanded groundwater sampling protocol as needed to monitor enhanced in-situ bioremediation effectiveness. vii) Conduct groundwater monitoring in the intermediate (INZ-1, INZ-2 and INZ-3) and deep (DW-1, DW-2 and DW-3) zone aquifers on a semi-annual basis. viii) Conduct groundwater sampling in drinking water wells in areas immediately down-gradient and adjacent to the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/15/2019

SINGER FRIDEN (Continued) **S101272670**

Comments:	Letter report summarizes the 2018 fourth quarter groundwater monitoring data collected at the former Singer-Friden Facility (site). Primary chemicals of concern (COCs) concentrations and other volatile organic compounds reported during previous sampling events were compared with concentrations reported during the November 2018 sampling event. As there was a 3-year gap between groundwater monitoring events of 2015 and 2018, additional groundwater monitoring events are needed to establish trends in primary COC concentrations within the appropriate statistical confidence levels for the wells screened in the site s hydrogeological units.
Completed Area Name:	Indoor Air
Completed Sub Area Name:	Unit 004
Completed Document Type:	Monitoring Report
Completed Date:	07/10/2019
Comments:	Letter report summarizes air sampling event performed from February 26 through February 27, 2019, at Unit 004 within the Sandpiper Townhouse Complex at the Former Singer-Friden Facility.
Completed Area Name:	Indoor Air
Completed Sub Area Name:	Unit 006
Completed Document Type:	Monitoring Report
Completed Date:	07/10/2019
Comments:	Letter report summarizes air sampling event performed from February 26 through February 28, 2019, at Unit 006 within the Sandpiper Townhouse Complex at the Former Singer-Friden Facility.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Workplan
Completed Date:	07/17/2019
Comments:	The subsurface geophysical survey workplan describes activities to assess for historical subsurface features. Survey activities will be conducted at five areas across the Site. Survey activities consist of a combination of magnetometry, electromagnetic terrain conductivity, metal detector, and ground penetrating radar methods .
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Health & Safety Plan
Completed Date:	07/23/2019
Comments:	The Site-Specific Health and Safety Plan provides essential information about hazards associated the Site, defines protocols necessary for protecting on-site personnel from the hazards associated with soil vapor investigation activities, and establishes site safety and health policies and procedures.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	09/04/2019
Comments:	Soil Gas Investigation Subsurface Geophysical Survey field work activities completed on September 4, 2019.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork

SINGER FRIDEN (Continued) **S101272670**

Completed Date:	09/13/2019
Comments:	Field work (indoor air quality samples) completed on 9/13/2019. Three residences (Units 010, 012 and 013) were sampled.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	10/18/2019
Comments:	October 2019 Indoor Air Quality Sampling Event completed on October 18, 2019. Thirteen samples were collected as following: * Six primary and one duplicate indoor air quality samples. * Five effluent samples. * One ambient air sample.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	10/17/2019
Comments:	A combination of geophysical methods was used to meet the objectives of the subsurface geophysical surveys as described in the 2019 Subsurface Geophysical Survey workplan. The selected geophysical survey methods were electromagnetic line locating, metal detection, ground penetrating radar, and total field magnetic. The selected geophysical methods used in each of the five survey areas at former Singer-Friden Site depended on the nature of the suspected targets and the available site access. Subsurface geophysical surveys results identified notable evidence of subsurface features at the central portion of Cornwall Way across the Sandpiper Townhome Complex s Pool House. These subsurface features are likely a shallow backfilled catch basin and a buried metallic object. Subsurface geophysical surveys did not identify notable evidence of subsurface features at the other four survey areas.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	08/21/2020
Comments:	Based on the findings of the Report, groundwater elevation and potentiometric surface data indicate potential vertical gradients between the four water-bearing zones at the Site. Concentrations of primary and other volatile organic compounds (VOCs) reported during historical sampling events were compared with the concentrations reported during the June 2020 sampling event. Analytical results indicate that VOC concentrations have largely stabilized or decreased over time, with occasional increases and fluctuations likely due to one or more of the following conditions: (1) seasonal variation of groundwater elevations and flow conditions and (2) redistribution of the dissolved contaminant mass in saturated porous media over time. Additionally, enhanced in-situ bioremediation pilot tests conducted in the areas near to the wells GW-1A, GW-3, EW-6, and EW-8 have caused VOC concentrations in these wells to vary significantly.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	10/17/2019
Comments:	According to the First Semiannual 2019 Groundwater Monitoring Report, volatile organic compound (VOC) concentrations have generally

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stabilized or decreased over time when compared to previous sampling events results. However, VOC concentrations have shown occasional increases and fluctuations likely due to one or more of the following conditions: (1) seasonal variation of groundwater elevations and flow conditions, (2) removal of the groundwater treatment system, and (3) redistribution of dissolved contaminant mass in the saturated porous media over time.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/17/2019
Comments: Second Semiannual 2019 Groundwater Monitoring Event occurred according to sampling schedule (every December).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/25/2020
Comments: Based on the findings of the Report, groundwater elevation and potentiometric surface data indicate potential vertical gradients between the four water-bearing zones at the Site. Concentrations of primary and other volatile organic compounds (VOCs) reported during historical sampling events were compared with the concentrations reported during the December 2019 sampling event. Analytical results indicate that VOC concentrations have generally stabilized or decreased over time. However, VOC concentrations have shown occasional increases and fluctuations likely due to one or more of the following conditions: (1) seasonal variation of groundwater elevations and flow conditions, (2) removal of the groundwater treatment system, and (3) redistribution of the dissolved contaminant mass in saturated porous media over time. Additionally, enhanced in-situ bioremediation pilot tests in the areas of wells GW-1A, GW-3, EW-6, and EW-8 have caused VOC concentrations in these wells to vary significantly.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 04/07/2020
Comments: 2019 Operations and Maintenance Summary Report for Sub-Slab Depressurization Systems (Report) provides a summary of operation and maintenance (O&M) inspections on sub-slab depressurization systems (SSDSs) at Units 001, 002, 002, 004,006, 007 and 008. O&M activities were done in general accordance to the Work Plan for Diagnostic Testing and Operation and Maintenance Plan of Existing SSD Systems at the Former Singer Friden Site. Final document has information redacted due to confidentiality. A non-redacted version of the Report is available at DTSC Berkeley Office File Room.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Site Characterization Report
Future Due Date: 2022
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports

SINGER FRIDEN (Continued) **S101272670**

Future Due Date:	2025
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Site Characterization Report
Future Due Date:	2022
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Site Characterization Report
Future Due Date:	2022
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Access Agreement
Future Due Date:	2021
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

Calsite:

Name:	SINGER FRIDEN
Address:	2350 AND 2450 WASHINGTON AVENUE
City:	SAN LEANDRO
Region:	BERKELEY
Facility ID:	01360094
Facility Type:	STATE
Type:	STATE FUNDED SITE
Branch:	NC
Branch Name:	NORTH COAST
File Name:	Not reported
State Senate District:	04282003
Status:	CERTIFIED OPERATION AND MAINTENANCE, ALL PLANNED ACTIVITIES IMPLEMENTED, REMEDIATION CONTINUES
Status Name:	CERTIFIED / OPERATION & MAINTENANCE
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
NPL:	Not Listed
SIC Code:	36
SIC Name:	MANU - ELECTRONIC & OTHER ELECTRIC EQUIP
Access:	Uncontrolled
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Confirmed
Staff Member Responsible for Site:	JRANDENI
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	SF
Region Water Control Board Name:	SAN FRANCISCO BAY
Lat/Long Direction:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	Not reported
State Assembly District Code:	18
State Senate District Code:	10
Facility ID:	01360094
Activity:	DISC
Activity Name:	DISCOVERY
AWP Code:	Not reported

SINGER FRIDEN (Continued) **S101272670**

Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	04011988
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01360094
Activity:	SS
Activity Name:	SITE SCREENING
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	04011988
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01360094
Activity:	PPP
Activity Name:	PUBLIC PARTICIPATION PLAN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	02281991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE

SINGER FRIDEN (Continued) **S101272670**

Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01360094
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	ISE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	05221991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01360094
Activity:	FRIFS
Activity Name:	FOCUSED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
AWP Code:	EXP
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06281991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0

SINGER FRIDEN (Continued) **S101272670**

For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01360094
Activity:	PRP
Activity Name:	POTENTIAL RESPONSIBLE PARTY SEARCH
AWP Code:	BASE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06281991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01360094
Activity:	FRIFS
Activity Name:	FOCUSED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
AWP Code:	WELLS
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08301991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01360094
Activity:	FRIFS
Activity Name:	FOCUSED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
AWP Code:	GWOFF
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported

SINGER FRIDEN (Continued) **S101272670**

Comments Date:	06121992
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01360094
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	ISE
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	07171992
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01360094
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	SH GW
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09061995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported

SINGER FRIDEN (Continued) **S101272670**

Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01360094
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	SH GW
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	10151996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01360094
Activity:	DES
Activity Name:	DESIGN
AWP Code:	SH GW
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	01261998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01360094

SINGER FRIDEN (Continued) **S101272670**

Activity:	RMDL
Activity Name:	REMEDIAL ACTION (RAP REQUIRED)
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08232001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01360094
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	04282003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01360094
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	NEG'D
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	10151996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported

SINGER FRIDEN (Continued) **S101272670**

Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01360094
Activity:	COST
Activity Name:	COST RECOVERY
AWP Code:	SETTL
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	11181996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01360094
Activity:	COST
Activity Name:	COST RECOVERY
AWP Code:	SETTL
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	02231993
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported

SINGER FRIDEN (Continued) **S101272670**

Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01360094
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	03132003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	01360094
Activity:	5YEAR
Activity Name:	FIVE-YEAR REVIEW REQUIRED BY CERCLA
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	04302008
Revised Due Date:	05012006
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	2481 SAN LEANDRO BOULEVARD
Alternate City,St,Zip:	SAN LEANDRO, CA 94577
Alternate Address:	2350 AND 2450 WASHINGTON AVENUE
Alternate City,St,Zip:	SAN LEANDRO, CA 94577

SINGER FRIDEN (Continued) **S101272670**

Background Info:	The Singer Company (and its predecessors-in-interest, Friden, Inc.; FRD, Inc.; and Friden Calculating Machine Co., Inc.) owned and operated a manufacturing facility (20 acres) that produced sewing machines and parts, adding machines, computers, data processing equipment, mailroom equipment, and printing machines. The known operation of this site was from 1941 to 1977.
Comments Date:	01261998
Comments:	Completed Design of treatment facility, based on 300 gallons per
Comments Date:	01261998
Comments:	minute (gpm) flow rate. Offsite conveyance design was not
Comments Date:	01261998
Comments:	included.
Comments Date:	02051996
Comments:	Completed excavation of 25 cubic yards of VOC contaminated
Comments Date:	02051996
Comments:	soil discovered during installation of conveyance piping.
Comments Date:	02231993
Comments:	Cost Settlement in US Bankruptcy Court regarding Bicoastal Corp.
Comments Date:	02231993
Comments:	(dba Simuflite fka The Singer Company) Case No. 89-8191-BKC-8P1.
Comments Date:	02231993
Comments:	DTSC receives $2,500,000. $2,250,000 applied to the Singer
Comments Date:	02231993
Comments:	Friden Site and $250,000 to 3176 Porter Drive in Palo Alto.
Comments Date:	02231993
Comments:	Settlement also addressed claims of the Dundee Homeowners Assoc.
Comments Date:	02231993
Comments:	DTSC and Dundee also settled their claims against each other, as
Comments Date:	02231993
Comments:	well as future access to the property by DTSC.
Comments Date:	03132003
Comments:	Completed PEA. Soil gas, soil, and groundwater have been
Comments Date:	03132003
Comments:	sampled extensively. The only soil contamination that required
Comments Date:	03132003
Comments:	removal was found in 1996 while installing the piping for the
Comments Date:	03132003
Comments:	groundwater extraction system. The primary contaminants in the
Comments Date:	03132003
Comments:	groundwater are trichloroethylene and perchloroethylene. The
Comments Date:	03132003
Comments:	final remedy required shallow groundwater extraction in "hot
Comments Date:	03132003
Comments:	spot" areas and treatment using granular activated carbon. The
Comments Date:	03132003
Comments:	treated water is discharged to the storm sewer under NPDES
Comments Date:	03132003
Comments:	permit.
Comments Date:	04282003
Comments:	Certified Site. One hundred and ninety single-family homes and
Comments Date:	04282003
Comments:	an office building now occupy the site.
Comments Date:	05042001
Comments:	Groundwater treatment started.
Comments Date:	05221991
Comments:	Issued I&SE Determination and Order to the site developers
Comments Date:	05221991

SINGER FRIDEN (Continued) **S101272670**

Comments: (known as the Citation entities) and owners of office building
Comments Date: 05221991
Comments: (Wm. Mathews, Inc.).
Comments Date: 05291992
Comments: Issued I&SE Determination for the San Leandro Plume site.
Comments Date: 06221998
Comments: Entered into a lease with Mr. & Mrs. Senna for space located at
Comments Date: 06221998
Comments: 2411 Washington Ave. San Leandro. The start date is March 1,
Comments Date: 06221998
Comments: 1999. The spaces will be used to construct the treatment system
Comments Date: 06221998
Comments: for groundwater extracted from the Singer Friden Site across the
Comments Date: 06221998
Comments: street. Rent is $450/month. Lease ends February 28, 2007.
Comments Date: 07171992
Comments: Re-issued I&SE Determination and Order to Bicoastal.
Comments Date: 08232001
Comments: Completed RA. Startup Report approved.
Comments Date: 09061995
Comments: Completed RIFS.
Comments Date: 10151996
Comments: Approved RAP. Final Remedy includes shallow groundwater
Comments Date: 10151996
Comments: extraction in "hot spot" areas and treatment using granular
Comments Date: 10151996
Comments: activiated carbon. Treatment system will be located outside of
Comments Date: 10151996
Comments: the condominium complex. CEQA Negative Declaration issued.
Comments Date: 11151999
Comments: Offsite conveyance design and revised treatment facility design
Comments Date: 11151999
Comments: completed based on 200 gpm flow rate.
Comments Date: 11181996
Comments: Cost Settlement with the Citation entities. Citation will pay
Comments Date: 11181996
Comments: DTSC $4,000,000 to cover all past and future liability for this
Comments Date: 11181996
Comments: Site.
ID Name: CALSTARS CODE
ID Value: 200251
ID Name: BEP DATABASE PCODE
ID Value: P23070
Alternate Name: STAEFA CONTROL SYSTEM
Alternate Name: UNIVERSAL PNEUMATIC CONTROLS
Alternate Name: SINGER FRIDEN
Alternate Name: SANDPIPER CONDOS
Alternate Name: SINGER CO
Alternate Name: FRIDEN INC
Alternate Name: WILLIAM MATHEWS BUILDING
Alternate Name: Not reported
Special Programs Code: CERC2
Special Programs Name: CERCLA II

CORTESE:
Name: SINGER FRIDEN
Address: 2350 AND 2450 WASHINGTON AVENUE

SINGER FRIDEN (Continued) **S101272670**

City,State,Zip:	SAN LEANDRO, CA 94577
Region:	CORTESE
Envirostor Id:	1360094
Global ID:	Not reported
Site/Facility Type:	STATE RESPONSE
Cleanup Status:	CERTIFIED / OPERATION & MAINTENANCE
Status Date:	04/28/2003
Site Code:	200251
Latitude:	37.715942
Longitude:	-122.14867
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	envirostor
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Haz Waste & Substances Sites

HIST CORTESE:

edr_fname:	SINGER FRIDEN
edr_fadd1:	2350 AND 2450 WASHINGTON
City,State,Zip:	SAN LEANDRO, CA 94577
Region:	CORTESE
Facility County Code:	1
Reg By:	CALSI
Reg Id:	01360094

CERS:

Name:	SINGER FRIDEN
Address:	2350 AND 2450 WASHINGTON AVENUE
City,State,Zip:	SAN LEANDRO, CA 94577
Site ID:	343061
CERS ID:	01360094
CERS Description:	State Response

Affiliation:

Affiliation Type Desc:	Supervisor
Entity Name:	Karen Toth
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Lead Project Manager
Entity Name:	Moises Carvalho
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	BERKELEY
Affiliation State:	CA

SINGER FRIDEN (Continued) **S101272670**

Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

128
NE
1/4-1/2
0.478 mi.
2523 ft.

CAR STORE THE
14285 14TH ST E
SAN LEANDRO, CA 94578

LUST **S103177037**
Cortese **N/A**
HIST CORTESE
CERS

Relative:
Higher

Actual:
52 ft.

LUST:
Name: CAR STORE THE
Address: 14285 14TH ST E
City,State,Zip: SAN LEANDRO, CA 94578
Lead Agency: SAN LEANDRO, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101784
Global Id: T0600101784
Latitude: 37.7117444
Longitude: -122.1378407
Status: Completed - Case Closed
Status Date: 05/21/1996
Case Worker: UNK
RB Case Number: 01-1924
Local Agency: SAN LEANDRO, CITY OF
File Location: Not reported
Local Case Number: 01-1924
Potential Media Affect: Soil
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

LUST:
Global Id: T0600101784
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0600101784
Contact Type: Local Agency Caseworker
Contact Name: UNK
Organization Name: SAN LEANDRO, CITY OF
Address: Not reported
City: r2 UNKNOWN
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600101784
Action Type: Other
Date: 04/28/1994
Action: Leak Discovery

Global Id: T0600101784

CAR STORE THE (Continued) **S103177037**

Action Type: Other
Date: 04/28/1994
Action: Leak Stopped

Global Id: T0600101784
Action Type: Other
Date: 04/28/1994
Action: Leak Reported

LUST:
Global Id: T0600101784
Status: Open - Case Begin Date
Status Date: 04/28/1994

Global Id: T0600101784
Status: Open - Site Assessment
Status Date: 04/28/1994

Global Id: T0600101784
Status: Completed - Case Closed
Status Date: 05/21/1996

LUST REG 2:
Region: 2
Facility Id: 01-1924
Facility Status: Case Closed
Case Number: 01-1924
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 4/28/1994
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CORTESE:
Name: CAR STORE THE
Address: 14285 14TH ST E
City,State,Zip: SAN LEANDRO, CA 94578
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600101784
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported

CAR STORE THE (Continued) **S103177037**

Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: CAR STORE THE
edr_fadd1: 14285 14TH
City,State,Zip: SAN LEANDRO, CA 94578
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1924

CERS:
Name: CAR STORE THE
Address: 14285 14TH ST E
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 222061
CERS ID: T0600101784
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: UNK - SAN LEANDRO, CITY OF
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: r2 UNKNOWN
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Q129 **BICOASTAL PROPERTIES** **LUST** **S103395982**
WNW **2711 ALVARADO ST** **Alameda County CS** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94577** **Cortese**
0.478 mi. **HIST CORTESE**
2526 ft. **Site 3 of 3 in cluster Q** **CERS**

Relative:
Lower

Actual:
38 ft.

LUST:

Name:	BICOASTAL PROPERTIES
Address:	2711 ALVARADO
City,State,Zip:	SAN LEANDRO, CA 94577
Lead Agency:	ALAMEDA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100191
Global Id:	T0600100191
Latitude:	37.708754
Longitude:	-122.154728
Status:	Completed - Case Closed
Status Date:	11/27/1995
Case Worker:	Not reported
RB Case Number:	01-0205
Local Agency:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	RO0000982
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

LUST:

Global Id:	T0600100191
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600100191
Action Type:	ENFORCEMENT
Date:	10/23/1995
Action:	State Water Board Closure Order
Global Id:	T0600100191
Action Type:	ENFORCEMENT
Date:	10/23/1995
Action:	Other Report
Global Id:	T0600100191
Action Type:	ENFORCEMENT
Date:	01/18/1994
Action:	* Historical Enforcement - #UNK
Global Id:	T0600100191
Action Type:	Other
Date:	06/12/1990
Action:	Leak Reported
Global Id:	T0600100191

BICOASTAL PROPERTIES (Continued) **S103395982**

Action Type: REMEDIATION
Date: 05/15/1990
Action: Excavation

LUST:
Global Id: T0600100191
Status: Open - Case Begin Date
Status Date: 05/15/1990

Global Id: T0600100191
Status: Completed - Case Closed
Status Date: 11/27/1995

LUST REG 2:
Region: 2
Facility Id: 01-0205
Facility Status: Case Closed
Case Number: 4550
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 6/1/1993
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Name: BICOASTAL PROPERTIES
Address: 2711 ALVARADO ST
City,State,Zip: SAN LEANDRO, CA 94577
Status: Case Closed
Record Id: RO0000982
PE: 5602
Facility Status: Case Closed
Latitude: 37.708883574
Longitude: -122.15459174

CORTESE:
Name: BICOASTAL PROPERTIES
Address: 2711 ALVARADO
City,State,Zip: SAN LEANDRO, CA 94577
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600100191
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported

BICOASTAL PROPERTIES (Continued) **S103395982**

Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	BICOASTAL PROPERTIES
edr_fadd1:	2711 ALVARADO
City,State,Zip:	SAN LEANDRO, CA 94577
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-0205

CERS:

Name:	BICOASTAL PROPERTIES
Address:	2711 ALVARADO
City,State,Zip:	SAN LEANDRO, CA 94577
Site ID:	200865
CERS ID:	T0600100191
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

S130 **SINGER FRIDEN NPDES** **CPS-SLIC** **S100864969**
NNW **2411 WASHINGTON AVE.** **CERS** **N/A**
1/4-1/2 **SAN LEANDRO, CA**
0.484 mi.
2555 ft. **Site 2 of 3 in cluster S**

Relative:
Higher

Actual:
53 ft.

CPS-SLIC:

Name:	SINGER FRIDEN [NPDES]
Address:	2411 WASHINGTON AVE.
City,State,Zip:	SAN LEANDRO, CA
Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	12/18/2015
Global Id:	SL0600116443
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)

SINGER FRIDEN NPDES (Continued) **S100864969**

Lead Agency Case Number:	Not reported
Latitude:	37.713854
Longitude:	-122.149883
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	43s1034
File Location:	Not reported
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	* Solvents
Site History:	No Water Board oversight of cleanup at this site. This case is included in Geotracker because the site is covered by the Water Boards NPDES general permits for discharges from pump and treat systems to surface waters (one each for fuels- and VOC-impacted sites). This can happen for two reasons: (i) the site is overseen by another agency (e.g., USEPA or DTSC) and needs coverage under one of the NPDES general permits or (ii) construction dewatering in an area of groundwater contamination necessitates NPDES general permit coverage. Including this case in Geotracker helps staff to receive and review required NPDES reports.

Click here to access the California GeoTracker records for this facility:

CERS:

Name:	SINGER FRIDEN [NPDES]
Address:	2411 WASHINGTON AVE.
City,State,Zip:	SAN LEANDRO, CA
Site ID:	207299
CERS ID:	SL0600116443
CERS Description:	Cleanup Program Site

S131 **WASTE OIL RECOVERY SYSTEMS INC** **ENVIROSTOR** **S112901611**
NNW **2411 WASHINGTON AVE** **HAZNET** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94577** **HWTS**
0.484 mi.
2555 ft. **Site 3 of 3 in cluster S**

Relative:
Higher

Actual:
53 ft.

ENVIROSTOR:

Name:	INTERCOASTAL PAINT COMPANY
Address:	2411 WASHINGTON AVENUE
City,State,Zip:	SAN LEANDRO, CA 94577
Facility ID:	01750031
Status:	No Further Action
Status Date:	06/29/2006
Site Code:	201097
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	1.5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Jayantha Randeni
Supervisor:	Cheryl Prowell
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Not reported

WASTE OIL RECOVERY SYSTEMS INC (Continued) **S112901611**

Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.71386
Longitude: -122.1497
APN: 75-84-19-4
Past Use: PAINT/DEPAINT FACILITY
Potential COC: * HALOGENATED SOLVENTS * HYDROCARBON SOLVENTS * CONTAMINATED SOIL
Confirmed COC: NONE SPECIFIED
Potential Description: OTH, SOIL
Alias Name: INTERCOASTAL PAINT COMPLANY
Alias Type: Alternate Name
Alias Name: 75-84-19-4
Alias Type: APN
Alias Name: 201097
Alias Type: Project Code (Site Code)
Alias Name: 01750031
Alias Type: Envirostor ID Number
Alias Name: 01990002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/29/2006
Comments: Although the fire and explosion in 1962 could have released VOCs at the Site, review of limited data available does not confirm a significant release. Since down-gradient VOC concentrations appear to be decreasing according to the Hudson data, it is likely that there is no VOC source currently at the IPC Site. Therefore, no further action is recommended for this Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/06/1997
Comments: Solvents were released during a large fire.

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

HAZNET:
Name: WASTE OIL RECOVERY SYSTEMS INC
Address: 2411 WASHINGTON AVE
Address 2: Not reported
City,State,Zip: SAN LEANDRO, CA 945775920
Contact: TINA FALCON
Telephone: 5107770750
Mailing Name: Not reported

WASTE OIL RECOVERY SYSTEMS INC (Continued) **S112901611**

Mailing Address: 6401 LEONA ST

Year: 2009
Gepaid: CAC002182210
TSD EPA ID: CAD028409019
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.45

Year: 2009
Gepaid: CAC002182210
TSD EPA ID: CAD028409019
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.099

Year: 2009
Gepaid: CAC002182210
TSD EPA ID: CAD028409019
CA Waste Code: 551 - Laboratory waste chemicals
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.09751

Year: 2009
Gepaid: CAC002182210
TSD EPA ID: CAD028409019
CA Waste Code: 181 - Other inorganic solid waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.38775

Additional Info:
Year: 2009
Gen EPA ID: CAC002182210

Shipment Date: 20091104
Creation Date: 2/3/2010 18:30:08
Receipt Date: 20091112
Manifest ID: 000765137GBF
Trans EPA ID: CAD000626515
Trans Name: WASTE OIL RECOVERY SYSTEMS INC
Trans 2 EPA ID: CAR000172478
Trans 2 Name: ENVIRONMENTAL LOGISTICS INC
TSDF EPA ID: CAD028409019
Trans Name: CROSBY AND OVERTON
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 214 - Unspecified solvent mixture
RCRA Code: D018
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.45
Waste Quantity: 125

WASTE OIL RECOVERY SYSTEMS INC (Continued) **S112901611**

Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091104
Creation Date:	2/3/2010 18:30:08
Receipt Date:	20091112
Manifest ID:	000765137GBF
Trans EPA ID:	CAD000626515
Trans Name:	WASTE OIL RECOVERY SYSTEMS INC
Trans 2 EPA ID:	CAR000172478
Trans 2 Name:	ENVIRONMENTAL LOGISTICS INC
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY AND OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091104
Creation Date:	2/3/2010 18:30:08
Receipt Date:	20091112
Manifest ID:	000765137GBF
Trans EPA ID:	CAD000626515
Trans Name:	WASTE OIL RECOVERY SYSTEMS INC
Trans 2 EPA ID:	CAR000172478
Trans 2 Name:	ENVIRONMENTAL LOGISTICS INC
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY AND OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.31275
Waste Quantity:	75
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

WASTE OIL RECOVERY SYSTEMS INC (Continued) **S112901611**

Shipment Date:	20091104
Creation Date:	2/3/2010 18:30:08
Receipt Date:	20091112
Manifest ID:	000765137GBF
Trans EPA ID:	CAD000626515
Trans Name:	WASTE OIL RECOVERY SYSTEMS INC
Trans 2 EPA ID:	CAR000172478
Trans 2 Name:	ENVIRONMENTAL LOGISTICS INC
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY AND OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20091104
Creation Date:	1/11/2010 18:30:22
Receipt Date:	20091112
Manifest ID:	000765139GBF
Trans EPA ID:	CAD000626515
Trans Name:	WASTE OIL RECOVERY SYSTEMS INC
Trans 2 EPA ID:	CAR000172478
Trans 2 Name:	ENVIRONMENTAL LOGISTICS INC
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY AND OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.099
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20091104
Creation Date:	1/11/2010 18:30:22
Receipt Date:	20091112
Manifest ID:	000765138GBF
Trans EPA ID:	CAD000626515
Trans Name:	WASTE OIL RECOVERY SYSTEMS INC
Trans 2 EPA ID:	CAR000172478

WASTE OIL RECOVERY SYSTEMS INC (Continued) **S112901611**

Trans 2 Name:	ENVIRONMENTAL LOGISTICS INC
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY AND OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20091104
Creation Date:	1/11/2010 18:30:22
Receipt Date:	20091112
Manifest ID:	000765138GBF
Trans EPA ID:	CAD000626515
Trans Name:	WASTE OIL RECOVERY SYSTEMS INC
Trans 2 EPA ID:	CAR000172478
Trans 2 Name:	ENVIRONMENTAL LOGISTICS INC
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY AND OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.00417
Waste Quantity:	1
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20091104
Creation Date:	1/11/2010 18:30:22
Receipt Date:	20091112
Manifest ID:	000765138GBF
Trans EPA ID:	CAD000626515
Trans Name:	WASTE OIL RECOVERY SYSTEMS INC
Trans 2 EPA ID:	CAR000172478
Trans 2 Name:	ENVIRONMENTAL LOGISTICS INC
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY AND OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D002

WASTE OIL RECOVERY SYSTEMS INC (Continued) **S112901611**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.00834
Waste Quantity:	2
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20091104
Creation Date:	1/11/2010 18:30:22
Receipt Date:	20091112
Manifest ID:	000765138GBF
Trans EPA ID:	CAD000626515
Trans Name:	WASTE OIL RECOVERY SYSTEMS INC
Trans 2 EPA ID:	CAR000172478
Trans 2 Name:	ENVIRONMENTAL LOGISTICS INC
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY AND OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	551 - Laboratory waste chemicals 561 Detergent and soap
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	WASTE OIL RECOVERY SYSTEMS INC
Address:	2411 WASHINGTON AVE
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945775920
EPA ID:	CAC002182210
Inactive Date:	04/28/2010
Create Date:	10/29/2009
Last Act Date:	05/06/2010
Mailing Name:	Not reported
Mailing Address:	6401 LEONA ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	OAKLAND, CA 946051217
Owner Name:	WASTE OIL RECOVERY SYSTEMS INC
Owner Address:	6401 LEONA ST
Owner Address 2:	Not reported
Owner City,State,Zip:	OAKLAND, CA 946051217
Contact Name:	TINA FALCON
Contact Address:	6401 LEONA ST
Contact Address 2:	Not reported
City,State,Zip:	OAKLAND, CA 946051217

T132 **SIMAS BROS SERVICE STATION** **LUST** **S103472414**
NE **14180 14TH ST E** **Cortese** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94578** **HIST CORTESE**
0.489 mi. **CERS**
2581 ft. **Site 1 of 2 in cluster T**

Relative:
Higher

Actual:
51 ft.

LUST:

Name:	SIMAS BROS SERVICE STATION
Address:	14180 14TH ST E
City,State,Zip:	SAN LEANDRO, CA 94578
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100794
Global Id:	T0600100794
Latitude:	37.712588
Longitude:	-122.137884
Status:	Completed - Case Closed
Status Date:	06/04/2014
Case Worker:	MYM
RB Case Number:	01-0860
Local Agency:	SAN LEANDRO, CITY OF
File Location:	Local Agency
Local Case Number:	4419
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Pay-for-Performance UST Cleanup Fund

LUST:

Global Id:	T0600100794
Contact Type:	Regional Board Caseworker
Contact Name:	MARTIN MUSONGE
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET
City:	OAKLAND
Email:	martin.musonge@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0600100794
Action Type:	ENFORCEMENT
Date:	01/30/2009
Action:	Notification - Public Notice of ROD/RAP/CAP
Global Id:	T0600100794
Action Type:	ENFORCEMENT
Date:	11/20/2006
Action:	Warning Letter
Global Id:	T0600100794
Action Type:	ENFORCEMENT
Date:	03/03/2009
Action:	Staff Letter
Global Id:	T0600100794
Action Type:	ENFORCEMENT
Date:	10/02/2008
Action:	Staff Letter
Global Id:	T0600100794

SIMAS BROS SERVICE STATION (Continued) **S103472414**

Action Type: ENFORCEMENT
Date: 05/03/2006
Action: Staff Letter

Global Id: T0600100794
Action Type: ENFORCEMENT
Date: 06/04/2014
Action: File review

Global Id: T0600100794
Action Type: ENFORCEMENT
Date: 10/26/2011
Action: Letter - Notice

Global Id: T0600100794
Action Type: Other
Date: 08/12/1986
Action: Leak Discovery

Global Id: T0600100794
Action Type: Other
Date: 08/12/1986
Action: Leak Stopped

Global Id: T0600100794
Action Type: Other
Date: 08/12/1986
Action: Leak Reported

Global Id: T0600100794
Action Type: ENFORCEMENT
Date: 03/20/2013
Action: File Review - Closure

Global Id: T0600100794
Action Type: REMEDIATION
Date: 02/26/2004
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0600100794
Action Type: ENFORCEMENT
Date: 03/20/2013
Action: Notification - Public Notice of Case Closure

Global Id: T0600100794
Action Type: ENFORCEMENT
Date: 08/04/2014
Action: Email Correspondence

LUST:
Global Id: T0600100794
Status: Open - Case Begin Date
Status Date: 08/12/1986

Global Id: T0600100794
Status: Open - Site Assessment
Status Date: 01/29/1993

SIMAS BROS SERVICE STATION (Continued) **S103472414**

Global Id:	T0600100794
Status:	Open - Site Assessment
Status Date:	05/15/1998
Global Id:	T0600100794
Status:	Open - Remediation
Status Date:	08/18/2008
Global Id:	T0600100794
Status:	Open - Eligible for Closure
Status Date:	03/20/2013
Global Id:	T0600100794
Status:	Completed - Case Closed
Status Date:	06/04/2014

LUST REG 2:

Region:	2
Facility Id:	01-0860
Facility Status:	Pollution Characterization
Case Number:	4419
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	1/29/1993
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	5/15/1998
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

CORTESE:

Name:	SIMAS BROS SERVICE STATION
Address:	14180 14TH ST E
City,State,Zip:	SAN LEANDRO, CA 94578
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0600100794
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported

SIMAS BROS SERVICE STATION (Continued) **S103472414**

Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: SIMAS BROS SERVICE STATIO
edr_fadd1: 14180 14TH
City,State,Zip: SAN LEANDRO, CA 94577
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0860

CERS:
Name: SIMAS BROS SERVICE STATION
Address: 14180 14TH ST E
City,State,Zip: SAN LEANDRO, CA 94578
Site ID: 217192
CERS ID: T0600100794
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: MARTIN MUSONGE - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY STREET
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

T133 **SIMAS BROS SERVICE STATION** **Alameda County CS** **S106880536**
NE **14180 E 14TH ST** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94578**
0.489 mi.
2581 ft. **Site 2 of 2 in cluster T**

Relative:
Higher

Actual:
51 ft.

Alameda County CS:
Name: SIMAS BROS SERVICE STATION
Address: 14180 E 14TH ST
City,State,Zip: SAN LEANDRO, CA 94578
Status: Leak Confirmation
Record Id: RO0000507
PE: 5602
Facility Status: Leak Confirmation
Latitude: 37.712667593
Longitude: -122.13891412

Name: SIMAS BROS SERVICE STATION
Address: 14180 E 14TH ST
City,State,Zip: SAN LEANDRO, CA 94578
Status: 11
Record Id: RO0000507
PE: 5602
Facility Status: Not reported

SIMAS BROS SERVICE STATION (Continued) **S106880536**

Latitude: 37.712667593
Longitude: -122.13891412

134
WNW
1/4-1/2
0.499 mi.
2637 ft.

TRW
820 ALADDIN AVE
SAN LEANDRO, CA 94577

CPS-SLIC **S106717780**
CERS **N/A**

Relative:
Lower

Actual:
38 ft.

CPS-SLIC:

Name:	TRW
Address:	820 ALADDIN AVE
City,State,Zip:	SAN LEANDRO, CA 94577
Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	06/04/2009
Global Id:	SL0600185209
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.708557
Longitude:	-122.155071
Case Type:	Cleanup Program Site
Case Worker:	UUU
Local Agency:	Not reported
RB Case Number:	01S0455
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Other Metal, Diesel, Total Petroleum Hydrocarbons (TPH), Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Nelson Stud Welding leased the facility in 1965 to manufacture and distribute welding studs. In 1969, Nelson Stud Welding became a division of TRW. The welding studs were manufactured from low carbon steel and involved a lathing operation that generated waste products such as cutting oils and metal shavings which were stored in drums. Small quantities of solvents used to clean tools were stored in containers inside) the building. The former storage pen was used to store and maintain diesel generators as well as to store the drums containing cutting oils and metal shavings (Appendix A; Photograph 1). The storage pen was unpaved until 1988 when it was covered with asphalt. The drums were typically stored for several weeks before being transported off site by a recycler. During storage, cutting oil leaked from some of the drums onto the unpaved ground. In addition, diesel fuel was spilled during maintenance of the diesel generators. Drums were also stored along the eastern and southern fence lines. Minor spills may have occurred at these locations. The rear service yard may also have been used occasionally for storage of diesel generators and drums containing metal shavings. TRW ceased manufacturing operations in 1985 but continued using the site as a sales and distribution facility. In 1988, several inches of surface soil from the storage pen were excavated and transported off site and the pen was paved with asphalt. TRW vacated the facility in December 1993. The facility has been occupied by Bay Cryogenics, Inc. and L&L Lift, Inc. since May 1994.

Click here to access the California GeoTracker records for this facility:

CERS:

TRW (Continued) **S106717780**

Name: TRW
Address: 820 ALADDIN AVE
City,State,Zip: SAN LEANDRO, CA 94577
Site ID: 240534
CERS ID: SL0600185209
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title: Not reported
Affiliation Address: 1515 CLAY ST SUITE 1400
Affiliation City: OAKLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

---

135 NNE 1/2-1 0.546 mi. 2885 ft. **FORD STAGING SITE (9TH GRADE ACADEMY)** **ENVIROSTOR SCH** **S108195942 N/A**
13900 14TH STREET
SAN LEANDRO, CA 94578

Relative: Higher
Actual: 51 ft.

ENVIROSTOR:
Name: FORD STAGING SITE (9TH GRADE ACADEMY)
Address: 13900 14TH STREET
City,State,Zip: SAN LEANDRO, CA 94578
Facility ID: 60000465
Status: No Further Action
Status Date: 11/02/2007
Site Code: 204190
Site Type: School Investigation
Site Type Detailed: School
Acres: 2.68
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Mark Malinowski
Division Branch: Northern California Schools & Santa Susana
Assembly: 18
Senate: 09
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 37.71488
Longitude: -122.1407
APN: 77E-1540-3
Past Use: RESIDENTIAL AREA, RETAIL - VEHICLES
Potential COC: Chlordane Lead Naturally Occurring Asbestos (NOA TPH-gas TPH-MOTOR OIL
Confirmed COC: 30004-NO 30013-NO No Contaminants found 30025-NO 3002502-NO 40002-NO
Potential Description: SOIL
Alias Name: 77E-1540-3
Alias Type: APN

FORD STAGING SITE (9TH GRADE ACADEMY) (Continued) **S108195942**

Alias Name: 204190
Alias Type: Project Code (Site Code)
Alias Name: 60000465
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: 11/03/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 05/17/2007
Comments: PEA Sampling field oversight conducted by DTSC Project Manager

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 12/28/2007
Comments: DTSC issued a CRU Memo to Accounting to close-out the project files.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 05/02/2007
Comments: DTSC reviewed the PEA Workplan and issued comments. DTSC received the revised PEA Workplan and comments the same day and DTSC comemnts were sufficiently addressed. DTSC approved the PEA Workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 11/02/2007
Comments: DTSC approved the PEA with a No Further Action determination

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:

Name: FORD STAGING SITE (9TH GRADE ACADEMY)
Address: 13900 14TH STREET
City,State,Zip: SAN LEANDRO, CA 94578
Facility ID: 60000465
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED

FORD STAGING SITE (9TH GRADE ACADEMY) (Continued) **S108195942**

Acres:	2.68
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Mark Malinowski
Division Branch:	Northern California Schools & Santa Susana
Site Code:	204190
Assembly:	18
Senate:	09
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	11/02/2007
Restricted Use:	NO
Funding:	School District
Latitude:	37.71488
Longitude:	-122.1407
APN:	77E-1540-3
Past Use:	RESIDENTIAL AREA, RETAIL - VEHICLES
Potential COC:	Chlordane, Chlordane, Lead, Naturally Occurring Asbestos (NOA), TPH-gas, TPH-MOTOR OIL
Confirmed COC:	30004-NO, 30013-NO, No Contaminants found, 30025-NO, 3002502-NO, 40002-NO
Potential Description:	SOIL
Alias Name:	77E-1540-3
Alias Type:	APN
Alias Name:	204190
Alias Type:	Project Code (Site Code)
Alias Name:	60000465
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:	11/03/2006
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	05/17/2007
Comments:	PEA Sampling field oversight conducted by DTSC Project Manager
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	12/28/2007
Comments:	DTSC issued a CRU Memo to Accounting to close-out the project files.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	05/02/2007
Comments:	DTSC reviewed the PEA Workplan and issued comments. DTSC received the revised PEA Workplan and comments the same day and DTSC comemnts were sufficiently addressed. DTSC approved the PEA Workplan.

FORD STAGING SITE (9TH GRADE ACADEMY) (Continued) **S108195942**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	11/02/2007
Comments:	DTSC approved the PEA with a No Further Action determination
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

136
WNW
1/2-1
0.548 mi.
2891 ft.

VAN BOKKELEN & SONS ESTATE
688 - 700 MONTAGUE AVE
SAN LEANDRO, CA 94577

LUST **S100179424**
Cortese **N/A**
HIST CORTESE
Notify 65
CERS

Relative:
Higher

Actual:
44 ft.

LUST:

Name:	VAN BOKKELEN & SONS ESTATE
Address:	688 - 700 MONTAGUE AVE
City,State,Zip:	SAN LEANDRO, CA 94577
Lead Agency:	ALAMEDA COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101506
Global Id:	T0600101506
Latitude:	37.711296
Longitude:	-122.154164
Status:	Completed - Case Closed
Status Date:	02/04/1994
Case Worker:	Not reported
RB Case Number:	01-1631
Local Agency:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	01-1631
Potential Media Affect:	Under Investigation
Potential Contaminants of Concern:	Diesel, Gasoline
Site History:	Not reported

LUST:

Global Id:	T0600101506
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0600101506
Action Type:	Other
Date:	01/22/1990
Action:	Leak Discovery

VAN BOKKELEN & SONS ESTATE (Continued) **S100179424**

Global Id: T0600101506
Action Type: Other
Date: 01/22/1990
Action: Leak Stopped

Global Id: T0600101506
Action Type: Other
Date: 01/22/1990
Action: Leak Reported

LUST:
Global Id: T0600101506
Status: Open - Case Begin Date
Status Date: 01/20/1990

Global Id: T0600101506
Status: Open - Site Assessment
Status Date: 01/20/1990

Global Id: T0600101506
Status: Open - Site Assessment
Status Date: 12/12/1990

Global Id: T0600101506
Status: Open - Site Assessment
Status Date: 08/28/1991

Global Id: T0600101506
Status: Completed - Case Closed
Status Date: 02/04/1994

LUST REG 2:
Region: 2
Facility Id: 01-1631
Facility Status: Case Closed
Case Number: 01-1631
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 1/20/1990
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 12/12/1990
Preliminary Site Assesment Began: 8/28/1991
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

CORTESE:
Name: VAN BOKKELEN & SONS ESTATE
Address: 688 - 700 MONTAGUE AVE
City,State,Zip: SAN LEANDRO, CA 94577
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600101506

VAN BOKKELEN & SONS ESTATE (Continued) **S100179424**

Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	VAN BOKKELEN & SONS
edr_fadd1:	688 MONTAGUE
City,State,Zip:	SAN LEANDRO, CA
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1631

NOTIFY 65:

Name:	NONE
Address:	688 MONTAGUE
City,State,Zip:	SAN LEANDRO, CA 92584
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
Global ID:	Not reported
Status:	Not reported

CERS:

Name:	VAN BOKKELEN & SONS ESTATE
Address:	688 - 700 MONTAGUE AVE
City,State,Zip:	SAN LEANDRO, CA 94577
Site ID:	226082
CERS ID:	T0600101506
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400
Affiliation City:	OAKLAND

VAN BOKKELEN & SONS ESTATE (Continued) **S100179424**

Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

U137 **SINGER - FRIDEN SITE** **Notify 65** **S100179679**
NNW **2350 WASHINGTON AVE** **N/A**
1/2-1 **SAN LEANDRO, CA 92584**
0.554 mi.
2927 ft. **Site 1 of 2 in cluster U**

Relative: **Higher**
Actual: **51 ft.**

NOTIFY 65:
Name: SINGER - FRIDEN SITE
Address: 2350 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 92584
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
Global ID: Not reported
Status: Not reported

U138 **SINGER-FRIDEN SITE** **Notify 65** **S100179678**
NNW **2350 WASHINGTON AVE** **N/A**
1/2-1 **SAN LEANDRO, CA 92584**
0.554 mi.
2927 ft. **Site 2 of 2 in cluster U**

Relative: **Higher**
Actual: **51 ft.**

NOTIFY 65:
Name: SINGER-FRIDEN SITE
Address: 2350 WASHINGTON AVE
City,State,Zip: SAN LEANDRO, CA 92584
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
Global ID: Not reported
Status: Not reported

139
NW
1/2-1
0.636 mi.
3358 ft.

H W MCKEVITT CO INC DBA MCKEVITT VOLVO
467 MARINA BLVD
SAN LEANDRO, CA 94577

ENVIROSTOR
VCP
HAZNET
HWTS

S113132031
N/A

Relative:
Higher

Actual:
49 ft.

ENVIROSTOR:

Name:	YOKOTA NURSERY
Address:	467 MARINA BOULEVARD
City,State,Zip:	SAN LEANDRO, CA 94577
Facility ID:	01010011
Status:	Refer: RWQCB
Status Date:	08/29/2002
Site Code:	201422
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	9
NPL:	NO
Regulatory Agencies:	RWQCB 2 - San Francisco Bay
Lead Agency:	RWQCB 2 - San Francisco Bay
Program Manager:	Jayantha Randeni
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.71461
Longitude:	-122.1533
APN:	75-87-3-2, 75-87-4-14, 75-87-4-4, 75-87-4-6
Past Use:	NURSERY
Potential COC:	DDD DDT Dieldrin
Confirmed COC:	DDD DDT Dieldrin
Potential Description:	SOIL
Alias Name:	75-87-3-2
Alias Type:	APN
Alias Name:	75-87-4-14
Alias Type:	APN
Alias Name:	75-87-4-4
Alias Type:	APN
Alias Name:	75-87-4-6
Alias Type:	APN
Alias Name:	110033620990
Alias Type:	EPA (FRS #)
Alias Name:	SL600192639
Alias Type:	GeoTracker Global ID
Alias Name:	201422
Alias Type:	Project Code (Site Code)
Alias Name:	01010011
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Standard Voluntary Agreement
Completed Date:	02/04/2002
Comments:	Voluntary Cleanup Agreements signed with Lavery California Dealership (Property Owner) to review data and reports for the Site to determine

H W MCKEVITT CO INC DBA MCKEVITT VOLVO (Continued) **S113132031**

if remediation conducted without DTSC oversight is protective of human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 08/29/2002
Comments: The property intends to be developed into an auto dealer. The San Francisco Bay Regional Water Quality Control Board has approved a soil management plan for the site and is requiring a deed restriction and asphalt cap to prevent exposure to the contaminants. In August 2002, DTSC confirmed that a deed restriction has been recorded on the properties by RWQCB and that no further action is needed for the site provided that the properties continue to comply with the RWQCB requirements.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Name: YOKOTA NURSERY
Address: 467 MARINA BOULEVARD
City,State,Zip: SAN LEANDRO, CA 94577
Facility ID: 01010011
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 9
National Priorities List: NO
Cleanup Oversight Agencies: RWQCB 2 - San Francisco Bay
Lead Agency: RWQCB 2 - San Francisco Bay
Lead Agency Description: RWQCB 2 - San Francisco Bay
Project Manager: Jayantha Randeni
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Site Code: 201422
Assembly: 18
Senate: 09
Special Programs Code: Voluntary Cleanup Program
Status: Refer: RWQCB
Status Date: 08/29/2002
Restricted Use: NO
Funding: Not reported
Lat/Long: 37.71461 / -122.1533
APN: 75-87-3-2, 75-87-4-14, 75-87-4-4, 75-87-4-6
Past Use: NURSERY
Potential COC: 30006, 30008, 30207
Confirmed COC: 30006,30008,30207
Potential Description: SOIL
Alias Name: 75-87-3-2

H W MCKEVITT CO INC DBA MCKEVITT VOLVO (Continued) **S113132031**

Alias Type:	APN
Alias Name:	75-87-4-14
Alias Type:	APN
Alias Name:	75-87-4-4
Alias Type:	APN
Alias Name:	75-87-4-6
Alias Type:	APN
Alias Name:	110033620990
Alias Type:	EPA (FRS #)
Alias Name:	SL600192639
Alias Type:	GeoTracker Global ID
Alias Name:	201422
Alias Type:	Project Code (Site Code)
Alias Name:	01010011
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Standard Voluntary Agreement
Completed Date:	02/04/2002
Comments:	Voluntary Cleanup Agreements signed with Lavery California Dealership (Property Owner) to review data and reports for the Site to determine if remediation conducted without DTSC oversight is protective of human health and the environment.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	08/29/2002
Comments:	The property intends to be developed into an auto dealer. The San Francisco Bay Regional Water Quality Control Board has approved a soil management plan for the site and is requiring a deed restriction and asphalt cap to prevent exposure to the contaminants. In August 2002, DTSC confirmed that a deed restriction has been recorded on the properties by RWQCB and that no further action is needed for the site provided that the properties continue to comply with the RWQCB requirements.

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

HAZNET:

Name:	H W MCKEVITT CO INC DBA H W MCKEVITT VOLVO
Address:	467 MARINA BLVD
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945770000
Contact:	PAUL VOSKES
Telephone:	5108955000
Mailing Name:	Not reported

H W MCKEVITT CO INC DBA MCKEVITT VOLVO (Continued) **S113132031**

Mailing Address: 467 MARINA BLVD

Year: 2019
Gepaid: CAL000282307
TSD EPA ID: CAT080013352
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.10425

Year: 2019
Gepaid: CAL000282307
TSD EPA ID: AZR000521146
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.46250

Year: 2018
Gepaid: CAL000282307
TSD EPA ID: AZR000515924
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.31250

Year: 2017
Gepaid: CAL000282307
TSD EPA ID: CAD097030993
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.445

Year: 2016
Gepaid: CAL000282307
TSD EPA ID: CAD097030993
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.345

Year: 2013
Gepaid: CAL000282307
TSD EPA ID: CAT080013352
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.1251

Year: 2011
Gepaid: CAL000282307
TSD EPA ID: CAT080013352
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.3336

H W MCKEVITT CO INC DBA MCKEVITT VOLVO (Continued) **S113132031**

Year:	2010
Gepaid:	CAL000282307
TSD EPA ID:	CA0000084517
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.1554
Year:	2008
Gepaid:	CAL000282307
TSD EPA ID:	CAT080013352
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.1251
Year:	2006
Gepaid:	CAL000282307
TSD EPA ID:	CAD980887418
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	R01 - Recycler
Tons:	5.111

Click this hyperlink while viewing on your computer to access
3 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2008
Gen EPA ID:	CAL000282307
Shipment Date:	20080310
Creation Date:	7/2/2008 18:30:07
Receipt Date:	20080324
Manifest ID:	003478508JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

H W MCKEVITT CO INC DBA MCKEVITT VOLVO (Continued) **S113132031**

Additional Info:

Year:	2011
Gen EPA ID:	CAL000282307
Shipment Date:	20110325
Creation Date:	6/4/2011 18:30:48
Receipt Date:	20110412
Manifest ID:	008135417JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.3336
Waste Quantity:	80
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2017
Gen EPA ID:	CAL000282307
Shipment Date:	20171117
Creation Date:	6/13/2018 18:30:39
Receipt Date:	20171130
Manifest ID:	018155512JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

H W MCKEVITT CO INC DBA MCKEVITT VOLVO (Continued) **S113132031**

Additional Code 5:	Not reported
Shipment Date:	20171006
Creation Date:	5/30/2018 18:31:28
Receipt Date:	20171019
Manifest ID:	017695790JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170901
Creation Date:	5/30/2018 18:33:04
Receipt Date:	20170912
Manifest ID:	017698085JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170703
Creation Date:	5/17/2018 18:32:00
Receipt Date:	20170721
Manifest ID:	017348568JJK
Trans EPA ID:	CAD028277036

H W MCKEVITT CO INC DBA MCKEVITT VOLVO (Continued) **S113132031**

Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.065
Waste Quantity:	130
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170516
Creation Date:	5/21/2018 18:30:38
Receipt Date:	20170606
Manifest ID:	017341564JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170428
Creation Date:	7/30/2018 18:30:20
Receipt Date:	20170516
Manifest ID:	016768700JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

H W MCKEVITT CO INC DBA MCKEVITT VOLVO (Continued) **S113132031**

Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.13
Waste Quantity:	260
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2004
Gen EPA ID:	CAL000282307
Shipment Date:	20041217
Creation Date:	3/13/2007 18:30:28
Receipt Date:	20041217
Manifest ID:	24107616
Trans EPA ID:	CAD009452657
Trans Name:	ROMIC ENVIRONMENTAL TECHNOLOGIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	ROMIC ENVIRONMENT TECHNOLOGIES
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	0.272
Waste Quantity:	80
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041018
Creation Date:	12/21/2004 18:31:57
Receipt Date:	20041018
Manifest ID:	22606770
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	ROMIC ENVIRONMENTAL TECHNOLOGIES
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	R01 - Recycler
Quantity Tons:	0.1251

H W MCKEVITT CO INC DBA MCKEVITT VOLVO (Continued) **S113132031**

Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20041007
Creation Date:	12/21/2004 18:30:50
Receipt Date:	20041007
Manifest ID:	23891900
Trans EPA ID:	CAD009452657
Trans Name:	ROMIC ENVIRONMENTAL TECHNOLOGIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD009452657
Trans Name:	ROMIC ENVIRONMENT TECHNOLOGIES
TSDF Alt EPA ID:	CAD009452657
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	0.408
Waste Quantity:	120
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040803
Creation Date:	1/11/2005 18:31:27
Receipt Date:	20040826
Manifest ID:	23491206
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	CAD063547996
Trans 2 Name:	PHILIP TRANSPORATION & REMEDIATION INC
TSDF EPA ID:	NVD980895338
Trans Name:	21ST CENTRURY EMI
TSDF Alt EPA ID:	NVD980895338
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NA
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

H W MCKEVITT CO INC DBA MCKEVITT VOLVO (Continued) **S113132031**

Additional Info:

Year:	2013
Gen EPA ID:	CAL000282307
Shipment Date:	20130524
Creation Date:	8/12/2013 22:15:16
Receipt Date:	20130610
Manifest ID:	011351222JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.1251
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2010
Gen EPA ID:	CAL000282307
Shipment Date:	20100406
Creation Date:	7/20/2010 18:30:24
Receipt Date:	20100409
Manifest ID:	002412220SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CA0000084517
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1554
Waste Quantity:	37
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

H W MCKEVITT CO INC DBA MCKEVITT VOLVO (Continued) **S113132031**

Additional Code 5: Not reported

Additional Info:
Year: 2006
Gen EPA ID: CAL000282307

Shipment Date: 20060602
Creation Date: 9/14/2006 18:39:29
Receipt Date: 20060602
Manifest ID: 24730653
Trans EPA ID: CAD982413262
Trans Name: EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD980887418
Trans Name: EVERGREEN OIL INC
TSDF Alt EPA ID: CAD980887418
TSDF Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported
Meth Code: R01 - Recycler
Quantity Tons: 5.111
Waste Quantity: 1345
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

HWTS:
Name: H W MCKEVITT CO INC DBA H W MCKEVITT VOLVO
Address: 467 MARINA BLVD
Address 2: Not reported
City,State,Zip: SAN LEANDRO, CA 945770000
EPA ID: CAL000282307
Inactive Date: Not reported
Create Date: 05/18/2004
Last Act Date: 08/14/2020
Mailing Name: Not reported
Mailing Address: 467 MARINA BLVD
Mailing Address 2: Not reported
Mailing City,State,Zip: SAN LEANDRO, CA 945770000
Owner Name: H W MCKEVITT CO INC
Owner Address: 467 MARINA BLVD
Owner Address 2: Not reported
Owner City,State,Zip: SAN LEANDRO, CA 945770000
Contact Name: PAUL VOSKES
Contact Address: 467 MARINA BLVD
Contact Address 2: Not reported
City,State,Zip: SAN LEANDRO, CA 94577

NAICS:
EPA ID: CAL000282307
Create Date: 2006-11-27 18:30:15.000
NAICS Code: 44111
NAICS Description: New Car Dealers

H W MCKEVITT CO INC DBA MCKEVITT VOLVO (Continued) **S113132031**

Issued EPA ID Date:	2004-05-18 15:29:54.51000
Inactive Date:	Not reported
Facility Name:	H W MCKEVITT CO INC DBA H W MCKEVITT VOLVO
Facility Address:	467 MARINA BLVD
Facility Address 2:	Not reported
Facility City:	SAN LEANDRO
Facility County:	Not reported
Facility State:	CA
Facility Zip:	945770000

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140 North 1/2-1 0.688 mi. 3631 ft.

SAN LEANDRO HIGH SCHOOL PROPERTY
2200 BANCROFT AVENUE
SAN LEANDRO, CA 94577

ENVIROSTOR SCH **S118756474 N/A**

Relative: Higher

Actual: 62 ft.

ENVIROSTOR:

Name:	SAN LEANDRO HIGH SCHOOL PROPERTY
Address:	2200 BANCROFT AVENUE
City,State,Zip:	SAN LEANDRO, CA 94577
Facility ID:	01490017
Status:	No Action Required
Status Date:	12/08/2000
Site Code:	204046
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	5.5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Mark Malinowski
Division Branch:	Northern California Schools & Santa Susana
Assembly:	18
Senate:	09
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	37.71874
Longitude:	-122.1409
APN:	77-586-1
Past Use:	* ELECTRIC, GAS & SANITARY SERVICES
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	No Contaminants found
Potential Description:	NMA
Alias Name:	SAN LEANDRO HIGH SCHOOL PROPERTY
Alias Type:	Alternate Name
Alias Name:	SAN LEANDRO USD - PG&E PROPERTY
Alias Type:	Alternate Name
Alias Name:	SAN LEANDRO USD-SAN LEANDRO HS PROPERTY
Alias Type:	Alternate Name
Alias Name:	77-586-1
Alias Type:	APN
Alias Name:	204045
Alias Type:	Project Code (Site Code)
Alias Name:	204046

SAN LEANDRO HIGH SCHOOL PROPERTY (Continued) **S118756474**

Alias Type: Project Code (Site Code)
Alias Name: 01490017
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 05/18/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 12/08/2000
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:

Name: SAN LEANDRO HIGH SCHOOL PROPERTY
Address: 2200 BANCROFT AVENUE
City,State,Zip: SAN LEANDRO, CA 94577
Facility ID: 01490017
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 5.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Mark Malinowski
Division Branch: Northern California Schools & Santa Susana
Site Code: 204046
Assembly: 18
Senate: 09
Special Program Status: Not reported
Status: No Action Required
Status Date: 12/08/2000
Restricted Use: NO
Funding: School District
Latitude: 37.71874
Longitude: -122.1409
APN: 77-586-1
Past Use: * ELECTRIC, GAS & SANITARY SERVICES
Potential COC: NONE SPECIFIED, No Contaminants found

SAN LEANDRO HIGH SCHOOL PROPERTY (Continued) **S118756474**

Confirmed COC:	No Contaminants found
Potential Description:	NMA
Alias Name:	SAN LEANDRO HIGH SCHOOL PROPERTY
Alias Type:	Alternate Name
Alias Name:	SAN LEANDRO USD - PG&E PROPERTY
Alias Type:	Alternate Name
Alias Name:	SAN LEANDRO USD-SAN LEANDRO HS PROPERTY
Alias Type:	Alternate Name
Alias Name:	77-586-1
Alias Type:	APN
Alias Name:	204045
Alias Type:	Project Code (Site Code)
Alias Name:	204046
Alias Type:	Project Code (Site Code)
Alias Name:	01490017
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	05/18/2005
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	12/08/2000
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

141
NE
1/2-1
0.693 mi.
3658 ft.

SAN LEANDRO USD/JEFFERSON ELEMENTARY
14311 LARK ST
SAN LEANDRO, CA 94578

ENVIROSTOR
SCH
HAZNET
HWTS

S113036286
N/A

Relative:
Higher

Actual:
51 ft.

ENVIROSTOR:

Name:	JEFFERSON ELEMENTARY SCHOOL
Address:	14311 LARK STREET
City,State,Zip:	SAN LEANDRO, CA 94578
Facility ID:	01820004
Status:	Certified
Status Date:	08/22/2006
Site Code:	204136
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	7.5
NPL:	NO

SAN LEANDRO USD/JEFFERSON ELEMENTARY (Continued) **S113036286**

Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Kamili Siglowide
Supervisor: Mark Malinowski
Division Branch: Northern California Schools & Santa Susana
Assembly: 18
Senate: 09
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 37.71295
Longitude: -122.1353
APN: 77E-1568-10-2
Past Use: SCHOOL - ELEMENTARY
Potential COC: Chlordane DDT Lead Dieldrin Heptachlor epoxide
Confirmed COC: Dieldrin Heptachlor epoxide Chlordane DDT Lead
Potential Description: SOIL
Alias Name: JEFFERSON ELEMENTARY SCHOOL
Alias Type: Alternate Name
Alias Name: Jefferson New Elementary School
Alias Type: Alternate Name
Alias Name: SAN LEANDRO USD-JEFFERSON ELEMENTARY SCL
Alias Type: Alternate Name
Alias Name: 77E-1568-10-2
Alias Type: APN
Alias Name: 110021409117
Alias Type: EPA (FRS #)
Alias Name: 204136
Alias Type: Project Code (Site Code)
Alias Name: 01820004
Alias Type: Envirostor ID Number
Alias Name: 01820005
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 11/02/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 05/13/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 09/02/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 07/08/2005

SAN LEANDRO USD/JEFFERSON ELEMENTARY (Continued) **S113036286**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 08/22/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 11/29/2004
Comments: DTSC entered into a School Cleanup Agreement (Docket Number HSA-A 04/05-007-Amended) with the San Leandro Unified School District (Proponent). The purposes of this Agreement are: a) for the Proponent to develop, and implement a Response Action(s), and other associated activities, under the oversight of DTSC in an effort to satisfy statutory and regulatory requirements, and satisfactorily mitigate environmental impacts at the site and receive site certification, and b) for DTSC to obtain reimbursement from the Proponent for oversight costs and c) to enable the Proponent to integrate and expedite the site cleanup and project finance and construction processes by seeking and obtaining all CDE and Office of Public School Construction final approvals and State Allocation Board School Facility Program apportionment for a project at the site prior to completion of the required Response Action(s), and d) to establish the terms of Proponent's obligation to complete all DTSC required investigations and/or Response Action(s).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 07/13/2004
Comments: EOA signed. DTSC entered into an Environmental Oversight Agreement (Docket Number HSA-A 04/05-007) with the San Leandro Unified School District to provide oversight for a Preliminary Endangerment Assessment for the proposed Jefferson Elementary School.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 05/21/2004
Comments: DTSC approved the Phase I with a PEA required deterimnation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 06/17/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 12/17/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE

SAN LEANDRO USD/JEFFERSON ELEMENTARY (Continued) **S113036286**

Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/22/2006
Comments: DTSC approved the RACR and certifies that all response actions have been completed and no further actions are required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/17/2004
Comments: DTSC approved the PEA with a further action determination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 09/04/2004
Comments: Approval letter not found, may have been approved through an email.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 01/17/2005
Comments: Approval letter not found, possible approval via email.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 02/07/2005
Comments: Comments to SSI report issued late February '05. No formal approval letter was issued for the report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 04/28/2005
Comments: Fact Sheet approved and sent out.

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:

Name: JEFFERSON ELEMENTARY SCHOOL
Address: 14311 LARK STREET
City,State,Zip: SAN LEANDRO, CA 94578
Facility ID: 01820004
Site Type: School Cleanup
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 7.5

SAN LEANDRO USD/JEFFERSON ELEMENTARY (Continued) **S113036286**

National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Kamili Siglowide
Supervisor: Mark Malinowski
Division Branch: Northern California Schools & Santa Susana
Site Code: 204136
Assembly: 18
Senate: 09
Special Program Status: Not reported
Status: Certified
Status Date: 08/22/2006
Restricted Use: NO
Funding: School District
Latitude: 37.71295
Longitude: -122.1353
APN: 77E-1568-10-2
Past Use: SCHOOL - ELEMENTARY
Potential COC: Chlordane, DDT, Lead, Dieldrin, Heptachlor epoxide
Confirmed COC: Dieldrin, Heptachlor epoxide, Chlordane, DDT, Lead
Potential Description: SOIL
Alias Name: JEFFERSON ELEMENTARY SCHOOL
Alias Type: Alternate Name
Alias Name: Jefferson New Elementary School
Alias Type: Alternate Name
Alias Name: SAN LEANDRO USD-JEFFERSON ELEMENTARY SCL
Alias Type: Alternate Name
Alias Name: 77E-1568-10-2
Alias Type: APN
Alias Name: 110021409117
Alias Type: EPA (FRS #)
Alias Name: 204136
Alias Type: Project Code (Site Code)
Alias Name: 01820004
Alias Type: Envirostor ID Number
Alias Name: 01820005
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 11/02/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 05/13/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 09/02/2004
Comments: Not reported

SAN LEANDRO USD/JEFFERSON ELEMENTARY (Continued) **S113036286**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 07/08/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 08/22/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 11/29/2004
Comments: DTSC entered into a School Cleanup Agreement (Docket Number HSA-A 04/05-007-Amended) with the San Leandro Unified School District (Proponent). The purposes of this Agreement are: a) for the Proponent to develop, and implement a Response Action(s), and other associated activities, under the oversight of DTSC in an effort to satisfy statutory and regulatory requirements, and satisfactorily mitigate environmental impacts at the site and receive site certification, and b) for DTSC to obtain reimbursement from the Proponent for oversight costs and c) to enable the Proponent to integrate and expedite the site cleanup and project finance and construction processes by seeking and obtaining all CDE and Office of Public School Construction final approvals and State Allocation Board School Facility Program apportionment for a project at the site prior to completion of the required Response Action(s), and d) to establish the terms of Proponent's obligation to complete all DTSC required investigations and/or Response Action(s).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 07/13/2004
Comments: EOA signed. DTSC entered into an Environmental Oversight Agreement (Docket Number HSA-A 04/05-007) with the San Leandro Unified School District to provide oversight for a Preliminary Endangerment Assessment for the proposed Jefferson Elementary School.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 05/21/2004
Comments: DTSC approved the Phase I with a PEA required deterimnation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 06/17/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request

SAN LEANDRO USD/JEFFERSON ELEMENTARY (Continued) **S113036286**

Completed Date: 12/17/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/22/2006
Comments: DTSC approved the RACR and certifies that all response actions have been completed and no further actions are required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/17/2004
Comments: DTSC approved the PEA with a further action determination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 09/04/2004
Comments: Approval letter not found, may have been approved through an email.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 01/17/2005
Comments: Approval letter not found, possible approval via email.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 02/07/2005
Comments: Comments to SSI report issued late February ’05. No formal approval letter was issued for the report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 04/28/2005
Comments: Fact Sheet approved and sent out.

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

HAZNET:
Name: SAN LEANDRO USD/JEFFERSON ELEMENTARY
Address: 14311 LARK ST
Address 2: Not reported
City,State,Zip: SAN LEANDRO, CA 945781727
Contact: MICHAEL MURPHY

SAN LEANDRO USD/JEFFERSON ELEMENTARY (Continued) **S113036286**

Telephone: 5106676019
Mailing Name: Not reported
Mailing Address: 14735 JUNIPER ST

Year: 2005
Gepaid: CAL000037052
TSD EPA ID: CAD028409019
CA Waste Code: 151 - Asbestos containing waste
Disposal Method: H01 - Transfer Station
Tons: 0.4214

Year: 2005
Gepaid: CAL000037052
TSD EPA ID: CAD981382732
CA Waste Code: 151 - Asbestos containing waste
Disposal Method: D80 - Disposal, Land Fill
Tons: 168.56

Year: 2005
Gepaid: CAL000037052
TSD EPA ID: CAD982042475
CA Waste Code: 151 - Asbestos containing waste
Disposal Method: D80 - Disposal, Land Fill
Tons: 16.856

Year: 2005
Gepaid: CAL000037052
TSD EPA ID: CAT000646117
CA Waste Code: 181 - Other inorganic solid waste
Disposal Method: D80 - Disposal, Land Fill
Tons: 50.568

Year: 1998
Gepaid: CAL000037052
TSD EPA ID: CAD981382732
CA Waste Code: 151 - Asbestos containing waste
Disposal Method: D80 - Disposal, Land Fill
Tons: 1.6856

Year: 1998
Gepaid: CAL000037052
TSD EPA ID: CAD028409019
CA Waste Code: 181 - Other inorganic solid waste
Disposal Method: H01 - Transfer Station
Tons: 0.065

Additional Info:
Year: 2005
Gen EPA ID: CAL000037052

Shipment Date: 20050325
Creation Date: 6/1/2005 18:31:04
Receipt Date: 20050330
Manifest ID: 22058019
Trans EPA ID: CAR000037283
Trans Name: WORLD ENVIRONMENTAL & ENERGY INC

SAN LEANDRO USD/JEFFERSON ELEMENTARY (Continued) **S113036286**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000646117
Trans Name:	CWMI-KETTLEMAN HILLS
TSDF Alt EPA ID:	CAT000646117
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050322
Creation Date:	6/1/2005 18:31:04
Receipt Date:	20050329
Manifest ID:	22058020
Trans EPA ID:	CAR000037283
Trans Name:	WORLD ENVIRONMENTAL & ENERGY INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000646117
Trans Name:	CWMI-KETTLEMAN HILLS
TSDF Alt EPA ID:	CAT000646117
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	33.712
Waste Quantity:	40
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050309
Creation Date:	6/12/2005 18:30:27
Receipt Date:	20050329
Manifest ID:	24082931
Trans EPA ID:	CAR000049957
Trans Name:	Z-CON SPECIALTY SERVICES
Trans 2 EPA ID:	CAR000037283
Trans 2 Name:	WORLD ENV & ENERGY
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON INC
TSDF Alt EPA ID:	CAD028409019
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station

SAN LEANDRO USD/JEFFERSON ELEMENTARY (Continued) **S113036286**

Quantity Tons:	0.4214
Waste Quantity:	0.5
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050308
Creation Date:	4/29/2005 11:28:07
Receipt Date:	20050308
Manifest ID:	24079394
Trans EPA ID:	CAR000037283
Trans Name:	WORLD ENVIRON & ENERGY
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981382732
Trans Name:	ALTAMONT LANDFILL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	8.428
Waste Quantity:	10
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050225
Creation Date:	4/29/2005 8:38:49
Receipt Date:	20050228
Manifest ID:	24079388
Trans EPA ID:	CAR000037283
Trans Name:	WORLD ENV & ENERGY
Trans 2 EPA ID:	CAR000049957
Trans 2 Name:	Z-CON SPECIALTY SERVICE
TSDF EPA ID:	CAD981382732
Trans Name:	ALTAMONT LANDFILL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

SAN LEANDRO USD/JEFFERSON ELEMENTARY (Continued) **S113036286**

Shipment Date:	20050225
Creation Date:	4/29/2005 8:38:49
Receipt Date:	20050228
Manifest ID:	24079389
Trans EPA ID:	CAR000037283
Trans Name:	WORLD ENV & ENERGY
Trans 2 EPA ID:	CAR000049957
Trans 2 Name:	Z-CON SPECIALTY SERV
TSDF EPA ID:	CAD981382732
Trans Name:	ALTAMONT LANDFILL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050224
Creation Date:	4/29/2005 8:38:49
Receipt Date:	20050224
Manifest ID:	24079387
Trans EPA ID:	CAR000037283
Trans Name:	WORLD ENV & ENERGY
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981382732
Trans Name:	ALTAMONT LANDFILL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050224
Creation Date:	4/29/2005 8:38:49
Receipt Date:	20050224
Manifest ID:	24079386
Trans EPA ID:	CAR000037283
Trans Name:	WORLD ENV & ENERGY
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981382732

SAN LEANDRO USD/JEFFERSON ELEMENTARY (Continued) **S113036286**

Trans Name:	ALTAMONT LANDFILL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050224
Creation Date:	4/29/2005 8:38:49
Receipt Date:	20050224
Manifest ID:	24079384
Trans EPA ID:	CAR000037283
Trans Name:	WORLD ENV & ENERGY
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981382732
Trans Name:	ALTAMONT LANDFILL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050224
Creation Date:	4/29/2005 8:38:49
Receipt Date:	20050224
Manifest ID:	24079385
Trans EPA ID:	CAR000037283
Trans Name:	WORLD ENV & ENERGY
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981382732
Trans Name:	ALTAMONT LANDFILL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y

SAN LEANDRO USD/JEFFERSON ELEMENTARY (Continued) **S113036286**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1998
Gen EPA ID:	CAL000037052
Shipment Date:	19981014
Creation Date:	12/7/1998 0:00:00
Receipt Date:	19981021
Manifest ID:	98514253
Trans EPA ID:	CAR000018697
Trans Name:	Not reported
Trans 2 EPA ID:	CAR000017657
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981382732
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	1.6856
Waste Quantity:	2
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980917
Creation Date:	11/5/1998 0:00:00
Receipt Date:	19980924
Manifest ID:	98066511
Trans EPA ID:	CAL000100467
Trans Name:	Not reported
Trans 2 EPA ID:	CAD982524480
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.065
Waste Quantity:	130
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

SAN LEANDRO USD/JEFFERSON ELEMENTARY (Continued) **S113036286**

HWTS:

Name:	SAN LEANDRO USD/JEFFERSON ELEMENTARY
Address:	14311 LARK ST
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945781727
EPA ID:	CAL000037052
Inactive Date:	06/30/2008
Create Date:	08/01/1990
Last Act Date:	08/15/2014
Mailing Name:	Not reported
Mailing Address:	14735 JUNIPER ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN LEANDRO, CA 945791222
Owner Name:	SAN LEANDRO USD
Owner Address:	14735 JUNIPER ST
Owner Address 2:	Not reported
Owner City,State,Zip:	SAN LEANDRO, CA 945791222
Contact Name:	MICHAEL MURPHY
Contact Address:	14735 JUNIPER ST
Contact Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 945791222

NAICS:

EPA ID:	CAL000037052
Create Date:	2002-03-14 16:36:27.000
NAICS Code:	61111
NAICS Description:	Elementary and Secondary Schools
Issued EPA ID Date:	1990-08-01 00:00:00
Inactive Date:	2008-06-30 00:00:00
Facility Name:	SAN LEANDRO USD/JEFFERSON ELEMENTARY
Facility Address:	14311 LARK ST
Facility Address 2:	Not reported
Facility City:	SAN LEANDRO
Facility County:	Not reported
Facility State:	CA
Facility Zip:	945781727

142
East
1/2-1
0.708 mi.
3739 ft.

RIDING GROUP **ENVIROSTOR** **S108484736**
14844-14860 EAST 14TH STREET AND 14875 BANCROFT AVENUE **N/A**
SAN LEANDRO, CA 94577

Relative:
Higher

Actual:
44 ft.

ENVIROSTOR:

Name:	RIDING GROUP
Address:	14844-14860 EAST 14TH STREET AND 14875 BANCROFT AVENUE
City,State,Zip:	SAN LEANDRO, CA 94577
Facility ID:	60000625
Status:	Inactive - Needs Evaluation
Status Date:	08/30/2007
Site Code:	201744
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	1.9
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP

RIDING GROUP (Continued) **S108484736**

Program Manager:	Not reported
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	10
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.70736
Longitude:	-122.1307
APN:	77E-1593-11-3, 77E-1593-13-3, 77E-1593-15
Past Use:	RESIDENTIAL AREA
Potential COC:	Chlordane Dieldrin
Confirmed COC:	Dieldrin Chlordane
Potential Description:	SOIL
Alias Name:	77E-1593-11-3
Alias Type:	APN
Alias Name:	77E-1593-13-3
Alias Type:	APN
Alias Name:	77E-1593-15
Alias Type:	APN
Alias Name:	201744
Alias Type:	Project Code (Site Code)
Alias Name:	60000625
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

143
WNW
1/2-1
0.838 mi.
4423 ft.

Relative:
Higher

Actual:
40 ft.

PETERSON TRACTOR COMPANY
955 MARINA BLVD
SAN LEANDRO, CA 94577

ENVIROSTOR **1000218829**
LUST **N/A**
Alameda County CS
Cortese
ENF
HIST CORTESE
HWT

ENVIROSTOR:

Name:	PETERSON TRACTOR FACILITY
Address:	955 MARINA BOULEVARD
City,State,Zip:	SAN LEANDRO, CA 94577
Facility ID:	01350118
Status:	Refer: RWQCB

PETERSON TRACTOR COMPANY (Continued) **1000218829**

Status Date: 06/10/1994
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: * CERC2
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.71262
Longitude: -122.1594
APN: 77A-648-1-7
Past Use: NONE SPECIFIED
Potential COC: * HALOGENATED SOLVENTS * Metals - Sludge * OIL/WATER SEPARATION SLUDGE * OXYGENATED SOLVENTS * CONTAMINATED SOIL * Sludge - Degreasing * WASTE OIL & MIXED OIL Arsenic Lead Nickel
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 77A-648-1-7
Alias Type: APN
Alias Name: CAD982359085
Alias Type: EPA Identification Number
Alias Name: T0600101072
Alias Type: GeoTracker Global ID
Alias Name: 01350118
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: 07/20/1987
Comments: SITE SCREENING DONE A HEAVY EQUIP SERVICING & SALES FAC. 6/ 19/85 SIGNIFICANT AMOUNT OF WASTE OIL IN WATER. 4/86 SUBMITTED A CLOSURE PLAN OF PONS.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 12/29/1987
Comments: PRELIM ASSESS DONE PENDING: RWQCB OVERSEEING C-U; DHS (ALTERNATIVE TECH. UNIT) ALSO ASSISTING FACILITY EMPLOYING BIODEGREDATION TO REDUCE LEVELS OF CONTMN.

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

PETERSON TRACTOR COMPANY (Continued) **1000218829**

Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST:
Name: PETERSON TRACTOR COMPANY
Address: 955 MARINA
City,State,Zip: SAN LEANDRO, CA 94577
Lead Agency: ALAMEDA COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600101072
Global Id: T0600101072
Latitude: 37.712243
Longitude: -122.158415
Status: Completed - Case Closed
Status Date: 07/07/1998
Case Worker: Not reported
RB Case Number: 01-1163
Local Agency: Not reported
File Location: All Files are on GeoTracker or in the Local Agency Database
Local Case Number: RO0000941
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

LUST:
Global Id: T0600101072
Contact Type: Regional Board Caseworker
Contact Name: Regional Water Board
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0600101072
Action Type: RESPONSE
Date: 07/08/1998
Action: Other Report / Document

Global Id: T0600101072
Action Type: Other
Date: 06/13/1985
Action: Leak Reported

Global Id: T0600101072
Action Type: REMEDIATION
Date: 11/17/1988
Action: Excavation

LUST:
Global Id: T0600101072
Status: Open - Case Begin Date
Status Date: 06/13/1985

PETERSON TRACTOR COMPANY (Continued) **1000218829**

Global Id: T0600101072
Status: Completed - Case Closed
Status Date: 07/07/1998

LUST REG 2:
Region: 2
Facility Id: 01-1163
Facility Status: Case Closed
Case Number: 1745
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 12/22/1988
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:
Name: PETERSON TRACTOR COMPANY
Address: 955 MARINA BLVD
City,State,Zip: SAN LEANDRO, CA 94577
Status: Case Closed
Record Id: RO0000941
PE: 5602
Facility Status: Case Closed
Latitude: 37.713349127
Longitude: -122.15945609

CORTESE:
Name: PETERSON TRACTOR COMPANY
Address: 955 MARINA
City,State,Zip: SAN LEANDRO, CA 94577
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0600101072
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported

PETERSON TRACTOR COMPANY (Continued) **1000218829**

Waste Management Uit Name: Not reported
File Name: Active Open

ENF:

Name:	PETERSON TRACTOR-OIL SPILL
Address:	955 MARINA
City,State,Zip:	SAN LEANDRO, CA
Region:	2
Facility Id:	248137
Agency Name:	Peterson Tractor Company
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
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:	UNREGS
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	2 019238N01
Reg Measure Id:	161559
Reg Measure Type:	Unregulated
Region:	2
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:	02/21/2013

PETERSON TRACTOR COMPANY (Continued) **1000218829**

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):	220585
Region:	2
Order / Resolution Number:	85-001
Enforcement Action Type:	Admin Civil Liability
Effective Date:	11/20/1985
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	01/01/1987
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	ACL 85-001 for PETERSON TRACTOR CO
Description:	DISCH OF 200 GALLONS OF OIL TO SURFACE WATER-PD 17,500
Program:	UNREGS
Latest Milestone Completion Date:	9/1/1992
# Of Programs1:	1
Total Assessment Amount:	17500
Initial Assessed Amount:	0
Liability $ Amount:	17500
Project $ Amount:	0
Liability $ Paid:	17500
Project $ Completed:	0
Total $ Paid/Completed Amount:	17500

HIST CORTESE:

edr_fname:	PETERSON TRACTOR COMPANY
edr_fadd1:	955 MARINA
City,State,Zip:	SAN LEANDRO, CA 94577
Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1163

HWT:

Name:	PETERSON
Address:	955 MARINA BLVD
City,State,Zip:	SAN LEANDRO, CA 94577
Reg Num:	6742
Expiration Date:	04/30/2021

V144 **FACTOR AVENUE PLUME (NO.1465), SAN LEANDRO** **CA BOND EXP. PLAN** **S105960431**
WSW **1465 FACTOR AVENUE** **N/A**
1/2-1 **SAN LEANDRO, CA 94577**
0.851 mi.
4493 ft. **Site 1 of 2 in cluster V**

Relative: **Lower**
Actual: **21 ft.**

CA BOND EXP. PLAN:

Reponsible Party:	DETAILED SITE EXPENDITURE PLAN
Project Revenue Source Company:	Not reported
Project Revenue Source Addr:	Not reported
Project Revenue Source City,St,Zip:	Not reported
Project Revenue Source Desc:	Bond funds will be used to investigate and possibly remediate the site. DHS has elected to continue the hazardous waste investigation, in the vicinity of 1465 Factor Avenue, San Leandro, even though multiple PRPs may be present. Following the collection of definitive information concerning responsibility, DHS will pursue enforcement actions, recover its costs, and require the responsible parties to implement the RAP. This site has not been identified as an NPL site, nor does it appear to be a likely NPL candidate in the future. Therefore, it appears unlikely that federal funds are a viable source of revenue for this site.
Site Description:	The Factor Avenue site is a contaminated shallow aquifer.
Hazardous Waste Desc:	Chemicals found on the site include: cyanide at 120 parts per billion (ppb); 1-1-Dichloroethylene (DCE) at 524 ppb; and 1,1-and 1,2-Dichloroethane (DCA) at 7.4 and 4.8 ppb, respectively; trans 1-2-dichloroethylene at 2110 ppb; 1,1-trichloroethane at321 ppb; trichloroethylene (TCE) at 2215 ppb; tetrachloroethylene (PCE) at 263 ppb; benzene at 7.19 pp); and toluene at 2.0 ppb.
Threat To Public Health & Env:	Ground water is a pathway for contaminant migration. Numerous private wells present possible route of exposure to humans. Residents of San Leandro who have shallow wells on their property are potential receptors for exposure to contaminants in ground water. The residents of record owning wells have been advised of possible exposures, in the event affected wells are used for drinking water.
Site Activity Status:	The site is currently undergoing Phase II remedial investigation. Monitoring wells and stratigraphic borings will be installed. Following the Phase II work, DHS will prepare an intial endangerment assessment. East Bay MUD (EBMUD) has required the installation of back flow devices on all residences situated on parcels with water wells, whether or not the water is used for drinking.

V145 **SIMMONS - SOILS** **RESPONSE** **S102008255**
WSW **1465 FACTOR AVENUE/1700 FAIRWAY DRIVE** **ENVIROSTOR** **N/A**
1/2-1 **SAN LEANDRO, CA 94577** **CERS**
0.851 mi.
4493 ft. **Site 2 of 2 in cluster V**

Relative: **Lower**
Actual: **21 ft.**

RESPONSE:

Name:	SIMMONS - SOILS
Address:	1465 FACTOR AVENUE/1700 FAIRWAY DRIVE
City,State,Zip:	SAN LEANDRO, CA 94577
Facility ID:	01730011
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	17
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Jayantha Randeni
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	201080

SIMMONS - SOILS (Continued) **S102008255**

Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	18
Senate:	09
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	10/06/2003
Restricted Use:	NO
Funding:	Responsible Party
Latitude:	37.70308
Longitude:	-122.1596
APN:	77B-855-7-7, 77B-855-8-2
Past Use:	TRANSPORTATION - WAREHOUSING
Potential COC :	Methyl tertbutyl ether (MTBE Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE 1,1-Dichloroethane 1,1-Dichloroethylene 1,2-Dichloroethylene (cis
Confirmed COC:	Methyl tertbutyl ether (MTBE Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE 1,1-Dichloroethane 1,1-Dichloroethylene 1,2-Dichloroethylene (cis
Potential Description:	OTH
Alias Name:	1465 FACTOR AVENUE
Alias Type:	Alternate Name
Alias Name:	DISPLAYCO
Alias Type:	Alternate Name
Alias Name:	DYNAMIC WORLDWIDE
Alias Type:	Alternate Name
Alias Name:	FACTOR AVENUE PLUME
Alias Type:	Alternate Name
Alias Name:	FACTOR AVENUE PLUME - SOILS
Alias Type:	Alternate Name
Alias Name:	KAISER ALUMINUM COMPANY
Alias Type:	Alternate Name
Alias Name:	KAISER PACKAGING DIVISION
Alias Type:	Alternate Name
Alias Name:	LADY'S CHOICE FOODS
Alias Type:	Alternate Name
Alias Name:	MACY MATTRESS
Alias Type:	Alternate Name
Alias Name:	SIMMONS COMPANY
Alias Type:	Alternate Name
Alias Name:	SIMMONS MANUFACTURING COMPANY, INC.
Alias Type:	Alternate Name
Alias Name:	SIMMONS MATTRESS COMPANY
Alias Type:	Alternate Name
Alias Name:	SIMMONS USA CORPORATION
Alias Type:	Alternate Name
Alias Name:	SLEEPER ASSOCIATED LIMITED PARTNERSHIP
Alias Type:	Alternate Name
Alias Name:	77B-855-7-7
Alias Type:	APN
Alias Name:	77B-855-8-2
Alias Type:	APN
Alias Name:	CAD073934176
Alias Type:	EPA Identification Number
Alias Name:	110033608497
Alias Type:	EPA (FRS #)
Alias Name:	P22083
Alias Type:	PCode

SIMMONS - SOILS (Continued) **S102008255**

Alias Name: 201080
Alias Type: Project Code (Site Code)
Alias Name: 01730011
Alias Type: Envirostor ID Number
Alias Name: 01990002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 11/01/1985
Comments: The site was discovered in 1985 by Lincon Properties during a property transfer evaluation at 1465 Factor Avenue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 03/11/1997
Comments: ORDER - An Imminent and Substantial Endangement and Remedial Action Order was issued to Simmons Company and Orton Development.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/06/2003
Comments: DTSC determined that no further action was needed at the site due to the declining concentrations of contaminants in groundwater. In April 2004, seventeen wells (on-site and off-site) were closed. The Site is located within a regional groundwater contamination problem located in the central area of the City of San Leandro.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 03/03/1998
Comments: Investigation report completed. Low concentrations of dichloroethylene, trichloroethylene, and tetrachloroethylene were detected in soil. Groundwater contamination above the drinking water standards for dichloroethylene, trichloroethylene, and tetrachloroethylene was also detected in the onsite wells, both shallow and deeper, and the nearby wells south of the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/01/1987
Comments: This soil gas investigation indicated that shallow groundwater contamination is widespread through the study area, but was inconclusive concerning the boundaries of the contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 01/01/1987
Comments: Investigations identified volatile organic compunds exceeding the California drinking water standards in the shallow groundwater. A review of the neighboring industries has revealed that chlorinated

SIMMONS - SOILS (Continued) **S102008255**

solvents have been used by adjacent businesses for many years.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 10/23/1987
Comments: The shallow groundwater is contaminated with volatile organic compounds.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 08/03/1989
Comments: The presence of volatile organic compounds, particularly 1,l-dichloroethene (DCE), l,l,l-trichloroethane (TCA), TCE, and tetrachloroethene (PCE), in shallow groundwater was confirmed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/15/1987
Comments: 6 soil samples and 3 groundwater samples were analyzed for volatile organic compounds VOCs). VOCs detected in soil were below regulatory levels. The VOCs in groundwater which were above drinking water standards appear to coming from upgraident offsite source.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 05/29/2003
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Name: SIMMONS - SOILS
Address: 1465 FACTOR AVENUE/1700 FAIRWAY DRIVE
City,State,Zip: SAN LEANDRO, CA 94577
Facility ID: 01730011
Status: No Further Action
Status Date: 10/06/2003
Site Code: 201080
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 17
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Jayantha Randeni

SIMMONS - SOILS (Continued) **S102008255**

Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Assembly:	18
Senate:	09
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	37.70308
Longitude:	-122.1596
APN:	77B-855-7-7, 77B-855-8-2
Past Use:	TRANSPORTATION - WAREHOUSING
Potential COC:	Methyl tertbutyl ether (MTBE Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE 1,1-Dichloroethane 1,1-Dichloroethylene 1,2-Dichloroethylene (cis
Confirmed COC:	Methyl tertbutyl ether (MTBE Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE 1,1-Dichloroethane 1,1-Dichloroethylene 1,2-Dichloroethylene (cis
Potential Description:	OTH
Alias Name:	1465 FACTOR AVENUE
Alias Type:	Alternate Name
Alias Name:	DISPLAYCO
Alias Type:	Alternate Name
Alias Name:	DYNAMIC WORLDWIDE
Alias Type:	Alternate Name
Alias Name:	FACTOR AVENUE PLUME
Alias Type:	Alternate Name
Alias Name:	FACTOR AVENUE PLUME - SOILS
Alias Type:	Alternate Name
Alias Name:	KAISER ALUMINUM COMPANY
Alias Type:	Alternate Name
Alias Name:	KAISER PACKAGING DIVISION
Alias Type:	Alternate Name
Alias Name:	LADY'S CHOICE FOODS
Alias Type:	Alternate Name
Alias Name:	MACY MATTRESS
Alias Type:	Alternate Name
Alias Name:	SIMMONS COMPANY
Alias Type:	Alternate Name
Alias Name:	SIMMONS MANUFACTURING COMPANY, INC.
Alias Type:	Alternate Name
Alias Name:	SIMMONS MATTRESS COMPANY
Alias Type:	Alternate Name
Alias Name:	SIMMONS USA CORPORATION
Alias Type:	Alternate Name
Alias Name:	SLEEPER ASSOCIATED LIMITED PARTNERSHIP
Alias Type:	Alternate Name
Alias Name:	77B-855-7-7
Alias Type:	APN
Alias Name:	77B-855-8-2
Alias Type:	APN
Alias Name:	CAD073934176
Alias Type:	EPA Identification Number
Alias Name:	110033608497
Alias Type:	EPA (FRS #)
Alias Name:	P22083
Alias Type:	PCode

SIMMONS - SOILS (Continued) **S102008255**

Alias Name: 201080
Alias Type: Project Code (Site Code)
Alias Name: 01730011
Alias Type: Envirostor ID Number
Alias Name: 01990002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 11/01/1985
Comments: The site was discovered in 1985 by Lincon Properties during a property transfer evaluation at 1465 Factor Avenue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 03/11/1997
Comments: ORDER - An Imminent and Substantial Endangement and Remedial Action Order was issued to Simmons Company and Orton Development.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/06/2003
Comments: DTSC determined that no further action was needed at the site due to the declining concentrations of contaminants in groundwater. In April 2004, seventeen wells (on-site and off-site) were closed. The Site is located within a regional groundwater contamination problem located in the central area of the City of San Leandro.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 03/03/1998
Comments: Investigation report completed. Low concentrations of dichloroethylene, trichloroethylene, and tetrachloroethylene were detected in soil. Groundwater contamination above the drinking water standards for dichloroethylene, trichloroethylene, and tetrachloroethylene was also detected in the onsite wells, both shallow and deeper, and the nearby wells south of the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/01/1987
Comments: This soil gas investigation indicated that shallow groundwater contamination is widespread through the study area, but was inconclusive concerning the boundaries of the contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 01/01/1987
Comments: Investigations identified volatile organic compunds exceeding the California drinking water standards in the shallow groundwater. A review of the neighboring industries has revealed that chlorinated

SIMMONS - SOILS (Continued) **S102008255**

solvents have been used by adjacent businesses for many years.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 10/23/1987
Comments: The shallow groundwater is contaminated with volatile organic compounds.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 08/03/1989
Comments: The presence of volatile organic compounds, particularly 1,l-dichloroethene (DCE), l,l,l-trichloroethane (TCA), TCE, and tetrachloroethene (PCE), in shallow groundwater was confirmed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/15/1987
Comments: 6 soil samples and 3 groundwater samples were analyzed for volatile organic compounds VOCs). VOCs detected in soil were below regulatory levels. The VOCs in groundwater which were above drinking water standards appear to coming from upgraidient offsite source.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 05/29/2003
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CERS:
Name: SIMMONS - SOILS
Address: 1465 FACTOR AVENUE/1700 FAIRWAY DRIVE
City,State,Zip: SAN LEANDRO, CA 94577
Site ID: 343039
CERS ID: 01730011
CERS Description: State Response

Affiliation:
Affiliation Type Desc: Lead Project Manager
Entity Name: JAYANTHA RANDENI
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: BERKELEY
Affiliation State: CA

SIMMONS - SOILS (Continued) **S102008255**

Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Supervisor
Entity Name:	Karen Toth
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

146
East
1/2-1
0.856 mi.
4518 ft.

UNOCAL #3292
15008 E. 14TH ST.
SAN LEANDRO, CA 94578

Notify 65 **S100179595**
CERS **N/A**

Relative:
Higher

Actual:
41 ft.

NOTIFY 65:

Name:	UNOCAL #3292
Address:	15008 E. 14TH ST.
City,State,Zip:	SAN LEANDRO, CA 92584
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
Global ID:	Not reported
Status:	Not reported

CERS:

Name:	UNOCAL #3292
Address:	15008 E. 14TH ST.
City,State,Zip:	SAN LEANDRO, CA 94578
Site ID:	227500
CERS ID:	T0600101450
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	KEITH NOWELL - ALAMEDA COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1131 Harbor Bay Parkway
Affiliation City:	ALAMEDA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	5105676764
Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Regional Water Board - SAN FRANCISCO BAY RWQCB (REGION 2)
Entity Title:	Not reported
Affiliation Address:	1515 CLAY ST SUITE 1400

UNOCAL #3292 (Continued) **S100179595**

Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

147
ESE
1/2-1
0.901 mi.
4756 ft.

USA PETROLEUM
15120 HEPERIAN BOULEVARD
SAN LEANDRO, CA 92584

Notify 65 **U000056654**
N/A

Relative:
Lower

Actual:
33 ft.

NOTIFY 65:

Name:	USA PETROLEUM
Address:	15120 HEPERIAN BOULEVARD
City,State,Zip:	SAN LEANDRO, CA 92584
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
Global ID:	Not reported
Status:	Not reported

W148
West
1/2-1
0.967 mi.
5108 ft.

CORRPRO COMPANIES INC
2799 MILLER ST
SAN LEANDRO, CA 94577
Site 1 of 2 in cluster W

RESPONSE **S113126114**
ENVIROSTOR **N/A**
HAZNET
HWTS

Relative:
Lower

Actual:
21 ft.

RESPONSE:

Name:	DANA CORPORATION
Address:	2799 MILLER STREET
City,State,Zip:	SAN LEANDRO, CA 94577
Facility ID:	01750029
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	0.7
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Jayantha Randeni
Supervisor:	Karen Toth
Division Branch:	Cleanup Berkeley
Site Code:	201018
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	18
Senate:	09
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	06/16/2006
Restricted Use:	NO
Funding:	Responsible Party

CORRPRO COMPANIES INC (Continued) **S113126114**

Latitude:	37.70433
Longitude:	-122.1638
APN:	77B-855-3
Past Use:	VEHICLE MAINTENANCE
Potential COC :	Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE 1,1-Dichloroethylene
Confirmed COC:	Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE 1,1-Dichloroethylene
Potential Description:	OTH
Alias Name:	Former Dana Corporation
Alias Type:	Alternate Name
Alias Name:	77B-855-3
Alias Type:	APN
Alias Name:	110033616629
Alias Type:	EPA (FRS #)
Alias Name:	201018
Alias Type:	Project Code (Site Code)
Alias Name:	01750029
Alias Type:	Envirostor ID Number
Alias Name:	01990002
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date:	12/11/1997
Comments:	Order issued to Dana Corporation and the property owner.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	11/15/2013
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	09/01/1998
Comments:	Soil samples analyzed in potential source areas did not detect any volatile organic compounds (VOCs). The highest 1,1-dichloroethene (DCE), trichloroethene (TCE), tetrachloroethene (PCE) and 1,1,1 trichloroethane (TCA) detected in groundwater at the site were 204 ppb, 67 ppb, 17 ppb and 19 ppb respectively. These concentration were slightly above the upgradient boundary concentrations.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	06/16/2006
Comments:	Based on the review of current and historical data, the site does not appear to currently have a source of hazardous substances which is contributing to groundwater contamination and does not appear to pose a current threat to human health or the environment.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report

CORRPRO COMPANIES INC (Continued) **S113126114**

Completed Date: 07/26/1993
Comments: 4 soil samples and 2 grab groundwater samples were analyzed for volatile organic compounds (VOCs), oil and grease (O & G), and total extractable hydrocarbons (TEH) at 2 locations. All soil sample results were below regulatory levels. DCE, TCE and PCE concentrations detected in the shallow groundwater were above the maximum contaminant levels (MCLs)

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

ENVIROSTOR:
Name: DANA CORPORATION
Address: 2799 MILLER STREET
City,State,Zip: SAN LEANDRO, CA 94577
Facility ID: 01750029
Status: No Further Action
Status Date: 06/16/2006
Site Code: 201018
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 0.7
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Jayantha Randeni
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Assembly: 18
Senate: 09
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.70433
Longitude: -122.1638
APN: 77B-855-3
Past Use: VEHICLE MAINTENANCE
Potential COC: Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE 1,1-Dichloroethylene
Confirmed COC: Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE 1,1-Dichloroethylene
Potential Description: OTH
Alias Name: Former Dana Corporation
Alias Type: Alternate Name
Alias Name: 77B-855-3
Alias Type: APN
Alias Name: 110033616629
Alias Type: EPA (FRS #)
Alias Name: 201018

CORRPRO COMPANIES INC (Continued) **S113126114**

Alias Type: Project Code (Site Code)
Alias Name: 01750029
Alias Type: Envirostor ID Number
Alias Name: 01990002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 12/11/1997
Comments: Order issued to Dana Corporation and the property owner.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/15/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/01/1998
Comments: Soil samples analyzed in potential source areas did not detect any volatile organic compounds (VOCs). The highest 1,1-dichloroethene (DCE), trichloroethene (TCE), tetrachloroethene (PCE) and 1,1,1 trichloroethane (TCA) detected in groundwater at the site were 204 ppb, 67 ppb, 17 ppb and 19 ppb respectively. These concentration were slightly above the upgradient boundary concentrations.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/16/2006
Comments: Based on the review of current and historical data, the site does not appear to currently have a source of hazardous substances which is contributing to groundwater contamination and does not appear to pose a current threat to human health or the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/26/1993
Comments: 4 soil samples and 2 grab groundwater samples were analyzed for volatile organic compounds (VOCs), oil and grease (O & G), and total extractable hydrocarbons (TEH) at 2 locations. All soil sample results were below regulatory levels. DCE, TCE and PCE concentrations detected in the shallow groundwater were above the maximum contaminant levels (MCLs)

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

CORRPRO COMPANIES INC (Continued) **S113126114**

Schedule Revised Date: Not reported

HAZNET:

Name:	CORRPRO COMPANIES INC
Address:	2799 MILLER ST
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 94577
Contact:	RICK WILLIAMS/CONSTRUC MGR/EX:260
Telephone:	5106148800
Mailing Name:	Not reported
Mailing Address:	2799 MILLER ST
Year:	2009
Gepaid:	CAL000269468
TSD EPA ID:	CAD980675276
CA Waste Code:	352 - Other organic solids
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	30.3408

Additional Info:

Year:	2009
Gen EPA ID:	CAL000269468
Shipment Date:	20090612
Creation Date:	8/3/2009 18:30:20
Receipt Date:	20090616
Manifest ID:	002026261FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICE INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	16.856
Waste Quantity:	20
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20090612
Creation Date:	8/3/2009 18:30:20
Receipt Date:	20090616
Manifest ID:	002026260FLE
Trans EPA ID:	MAD039322250
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICE INC

CORRPRO COMPANIES INC (Continued) **S113126114**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980675276
Trans Name:	CLEAN HARBORS BUTTONWILLOW LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	13.4848
Waste Quantity:	16
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	CORRPRO COMPANIES INC
Address:	2799 MILLER ST
Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 94577
EPA ID:	CAL000269468
Inactive Date:	06/30/2005
Create Date:	04/24/2003
Last Act Date:	04/12/2011
Mailing Name:	Not reported
Mailing Address:	2799 MILLER ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN LEANDRO, CA 94577
Owner Name:	CORRPRO COMPANIES INC
Owner Address:	2799 MILLER ST
Owner Address 2:	Not reported
Owner City,State,Zip:	SAN LEANDRO, CA 94577
Contact Name:	RICK WILLIAMS/CONSTRUC MGR/EX:260
Contact Address:	2799 MILLER ST
Contact Address 2:	Not reported
City,State,Zip:	SAN LEANDRO, CA 94577

NAICS:

EPA ID:	CAL000269468
Create Date:	2005-03-08 14:50:00.000
NAICS Code:	23599
NAICS Description:	All Other Special Trade Contractors
Issued EPA ID Date:	2003-04-24 10:19:03.54700
Inactive Date:	2005-06-30 15:01:00
Facility Name:	CORRPRO COMPANIES INC
Facility Address:	2799 MILLER ST
Facility Address 2:	Not reported
Facility City:	SAN LEANDRO
Facility County:	Not reported
Facility State:	CA
Facility Zip:	94577

W149 **DANA CORPORATION** **HIST Cal-Sites** **S101641808**
West **2799 MILLER STREET** **CERS** **N/A**
1/2-1 **SAN LEANDRO, CA 94577**
0.967 mi.
5108 ft. **Site 2 of 2 in cluster W**

Relative: **Lower**

Actual: **21 ft.**

Calsite:

Name:	DANA CORPORATION
Address:	2799 MILLER STREET
City:	SAN LEANDRO
Region:	BERKELEY
Facility ID:	01750029
Facility Type:	RP
Type:	RESPONSIBLE PARTY
Branch:	NC
Branch Name:	NORTH COAST
File Name:	Not reported
State Senate District:	12151997
Status:	ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
NPL:	Not Listed
SIC Code:	75
SIC Name:	AUTO REPAIR, SERVICES & PARKING
Access:	Controlled
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Confirmed
Staff Member Responsible for Site:	JRANDENI
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	SF
Region Water Control Board Name:	SAN FRANCISCO BAY
Lat/Long Direction:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	Not reported
State Assembly District Code:	18
State Senate District Code:	10
Facility ID:	01750029
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	IS&E
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	12111997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported

DANA CORPORATION (Continued) **S101641808**

For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 2799 MILLER STREET
Alternate City,St,Zip: SAN LEANDRO, CA 94577
Background Info: The Site is located on approximately 0.7-acre parcel of land and consists of a one-story building. In or about 1963, the Site was developed for Dana Corporation to assemble and repair heavy-duty truck transmissions. Degreasing agents such as carbon tetrachloride, trichloroethene and 1, 1, 1-trichloroethane were used. From 1987 to 1994, Westates Mechanical Contractors, Inc. (Westates) occupied the Site. Westates used trichloroethane. A 1998 site investigation found low concentrations of tetrachloroethylene, toluene and xylene were detected in the site soil. Dichloroethane, dichloroethylene, trichloroethylene, and tetrachloroethylene were found above the drinking water standard. The Site is located within a regional groundwater contamination problem located in the central area of the City of San Leandro.
Comments Date: 12111997
Comments: Order issued to Dana Corporation and Carol Petersen (property
Comments Date: 12111997
Comments: owner).
ID Name: CALSTARS CODE
ID Value: 201018
Alternate Name: DANA CORPORATION
Alternate Name: Not reported
Special Programs Code: Not reported
Special Programs Name: Not reported

CERS:
Name: DANA CORPORATION
Address: 2799 MILLER STREET
City,State,Zip: SAN LEANDRO, CA 94577
Site ID: 336588
CERS ID: 01750029
CERS Description: State Response

Affiliation:
Affiliation Type Desc: Lead Project Manager
Entity Name: JAYANTHA RANDENI
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: BERKELEY
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Supervisor
Entity Name: Karen Toth
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

DANA CORPORATION (Continued) **S101641808**

Affiliation Zip: Not reported
Affiliation Phone: Not reported

150
SSE
1/2-1
0.987 mi.
5209 ft.

ROTO-ROOTER **Notify 65** **S100179558**
14985 WASHINGTON AVE **N/A**
SAN LEANDRO, CA 92584

Relative:
Lower

Actual:
28 ft.

NOTIFY 65:

Name:	ROTO-ROOTER
Address:	14985 WASHINGTON AVE
City,State,Zip:	SAN LEANDRO, CA 92584
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
Global ID:	Not reported
Status:	Not reported

Count: 5 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SAN LEANDRO	1014675500	CITY OF SAN LEANDRO - WASHINGTON S	14000 BLOCK, WASHINGTON	94577	FINDS, ECHO
SAN LEANDRO	1007200559	CITY OF SAN LEANDRO - WASHINGTON S	14000 BLOCK, WASHINGTON	94577	RCRA-SQG
SAN LEANDRO	S112978120	CITY OF SAN LEANDRO DEPT ENVIRONME	INTERSECTION OF WASHINGTON AVE	94577	HAZNET, HWTS
SAN LEANDRO	S106234888	SAN LEANDRO INVESTORS GROUP	PERAUTA AVE/SAN LEANDRO BLVD		CPS-SLIC
SAN LEANDRO	S121690182	WASHINGTON AVE IMPROVEMENTS PROJEC	WASHINGTON AVE & LEWELLING BLV	94577	CIWQS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 10/11/2021
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: 02/22/2021
Date Data Arrived at EDR: 03/30/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly 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). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 82

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/05/2021
Next Scheduled EDR Contact: 11/22/2021
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: 05/17/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

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: 05/17/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/24/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 85

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
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: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
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: 05/10/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 77

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 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: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 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: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

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: No Update Planned

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 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

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
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: No Update Planned

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: No Update Planned

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: No Update Planned

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: No Update Planned

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: No Update Planned

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: No Update Planned

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: No Update Planned

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: 01/29/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 03/05/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 04/01/2021
Number of Days to Update: 23
Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
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: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
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: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: No Update Planned

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: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

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: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: No Update Planned

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/15/2021
Date Data Arrived at EDR: 03/16/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/27/2021
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: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 11/22/2021
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: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
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: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
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: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/22/2021
Next Scheduled EDR Contact: 09/06/2021
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: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
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: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 02/24/2021
Date Data Arrived at EDR: 02/24/2021
Date Made Active in Reports: 05/14/2021
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/14/2021
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/02/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 77

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/24/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 85

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/04/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 05/04/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 85

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 08/30/2021
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: 07/13/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/06/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/06/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 09/27/2021
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: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/17/2021
Next Scheduled EDR Contact: 08/30/2021
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: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/16/2021
Number of Days to Update: 87

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/19/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 09/13/2021
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: 05/07/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/14/2021
Next Scheduled EDR Contact: 11/01/2021
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: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/05/2021
Number of Days to Update: 50

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 11/15/2021
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: 11/19/2020
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 73

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: No Update Planned

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

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: 03/08/2021
Date Data Arrived at EDR: 03/11/2021
Date Made Active in Reports: 05/11/2021
Number of Days to Update: 61

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/14/2021
Next Scheduled EDR Contact: 11/01/2021
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: 12/31/2019
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 70

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/13/2021
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: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/13/2021
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: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/06/2021
Next Scheduled EDR Contact: 11/15/2021
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: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: No Update Planned

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: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/23/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 07/14/2021
Date Made Active in Reports: 07/16/2021
Number of Days to Update: 2
Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/02/2021
Next Scheduled EDR Contact: 10/18/2021
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: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151
Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546
Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/02/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3
Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/23/2021
Next Scheduled EDR Contact: 11/15/2021
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: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74
Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16
Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: No Update Planned

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: No Update Planned

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: 05/03/2021
Date Data Arrived at EDR: 05/25/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 78

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 05/27/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 14

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

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: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/23/2021
Date Data Arrived at EDR: 03/25/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 84

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/14/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/03/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 33

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/04/2021
Date Data Arrived at EDR: 04/06/2021
Date Made Active in Reports: 06/25/2021
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/07/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 09/06/2021
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: 05/14/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 81

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 79

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/19/2021
Date Made Active in Reports: 08/05/2021
Number of Days to Update: 78

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/04/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 77

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Annually

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 02/26/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 06/16/2020
Date Made Active in Reports: 08/28/2020
Number of Days to Update: 73

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/27/2021
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: 04/16/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 04/14/2021
Date Data Arrived at EDR: 04/15/2021
Date Made Active in Reports: 07/06/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
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: 05/13/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 74

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 11/22/2021
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: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 74

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 74

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/05/2021
Date Data Arrived at EDR: 04/06/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
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: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 01/29/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 03/02/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 78

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/12/2021
Date Data Arrived at EDR: 03/16/2021
Date Made Active in Reports: 06/01/2021
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
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: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 11/19/2019
Date Data Arrived at EDR: 01/07/2020
Date Made Active in Reports: 03/09/2020
Number of Days to Update: 62

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
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: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)

Projects sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 06/07/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/12/2021
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 05/19/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3
Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System
DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/08/2021
Date Data Arrived at EDR: 04/09/2021
Date Made Active in Reports: 04/20/2021
Number of Days to Update: 11
Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55
Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: No Update Planned

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: No Update Planned

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29
Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 03/17/2021
Date Data Arrived at EDR: 03/18/2021
Date Made Active in Reports: 03/25/2021
Number of Days to Update: 7

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List

Cupa Facility List

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing

Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 06/15/2021
Date Data Arrived at EDR: 06/16/2021
Date Made Active in Reports: 07/02/2021
Number of Days to Update: 16

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 04/21/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 81

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 12/17/2020
Date Data Arrived at EDR: 01/28/2021
Date Made Active in Reports: 04/16/2021
Number of Days to Update: 78

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/12/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 75

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 01/14/2021
Date Data Arrived at EDR: 01/15/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 80

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 2

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/14/2021
Date Data Arrived at EDR: 04/15/2021
Date Made Active in Reports: 07/06/2021
Number of Days to Update: 82

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 04/22/2021
Date Data Arrived at EDR: 04/30/2021
Date Made Active in Reports: 07/19/2021
Number of Days to Update: 80

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/21/2021
Date Made Active in Reports: 01/28/2021
Number of Days to Update: 7

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/12/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 75

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/06/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 04/08/2021
Date Data Arrived at EDR: 04/13/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 76

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/12/2021
Date Data Arrived at EDR: 04/13/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 76

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 81

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/06/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 02/04/2021
Date Data Arrived at EDR: 04/16/2021
Date Made Active in Reports: 04/21/2021
Number of Days to Update: 5

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 07/12/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 11

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/02/2021
Date Data Arrived at EDR: 04/16/2021
Date Made Active in Reports: 07/06/2021
Number of Days to Update: 81

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/06/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: No Update Planned

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/24/2021
Date Data Arrived at EDR: 04/07/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/13/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 73

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 08/09/2021
Next Scheduled EDR Contact: 11/28/2021
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 06/02/2021
Next Scheduled EDR Contact: 09/06/3021
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/23/2021
Date Data Arrived at EDR: 06/23/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 1

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 04/29/2021
Date Made Active in Reports: 07/15/2021
Number of Days to Update: 77

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 04/30/2021
Date Made Active in Reports: 07/19/2021
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/29/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/12/2021
Number of Days to Update: 9

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/29/2021
Date Data Arrived at EDR: 04/30/2021
Date Made Active in Reports: 07/19/2021
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/29/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 05/26/2021
Date Made Active in Reports: 06/01/2021
Number of Days to Update: 6

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 14

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 14
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/07/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 03/30/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 03/30/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/25/2021
Number of Days to Update: 85
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 04/29/2021
Date Made Active in Reports: 05/03/2021
Number of Days to Update: 4
Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 05/19/2021
Date Data Arrived at EDR: 05/19/2021
Date Made Active in Reports: 06/07/2021
Number of Days to Update: 19
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 03/02/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/21/2021
Number of Days to Update: 79

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: No Update Planned

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 05/07/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 05/14/2021
Number of Days to Update: 3

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/02/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: No Update Planned

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/24/2021
Date Data Arrived at EDR: 02/26/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 82

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: No Update Planned

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/23/2021
Date Data Arrived at EDR: 03/25/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 77

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 09/12/2021
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/28/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/01/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/17/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 78

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/06/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 04/14/2021
Date Data Arrived at EDR: 04/15/2021
Date Made Active in Reports: 07/06/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 04/26/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/29/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 81
Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/29/2021
Date Data Arrived at EDR: 04/21/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 2
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/26/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 04/21/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 05/12/2021
Number of Days to Update: 20

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
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: 03/24/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 07/28/2021
Number of Days to Update: 78

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/29/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/07/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 02/24/2021
Number of Days to Update: 13

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/11/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
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 Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data 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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

WASHINGTON AVE. SAN LEANDRO
14143-14273 WASHINGTON AVE
SAN LEANDRO, CA 94578

TARGET PROPERTY COORDINATES

Latitude (North):	37.706535 - 37° 42' 23.53''
Longitude (West):	122.144982 - 122° 8' 41.94''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	575369.1
UTM Y (Meters):	4173394.2
Elevation:	39 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5641120 SAN LEANDRO, CA
Version Date:	2012
East Map:	5640616 HAYWARD, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

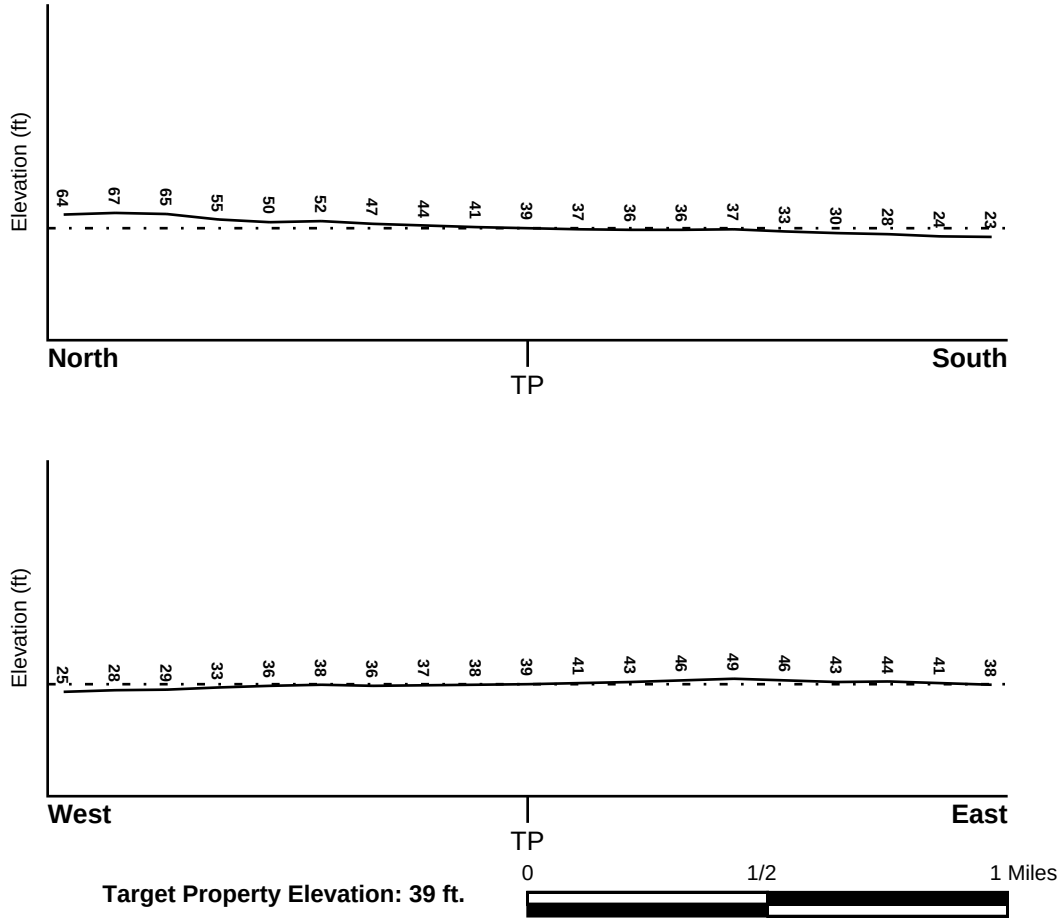
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 39 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06001C0259G	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06001C0257G	FEMA FIRM Flood data
06001C0258G	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
SAN LEANDRO	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
G26	1/2 - 1 Mile WNW	W
F27	1/2 - 1 Mile North	NW
28	1/2 - 1 Mile North	Varies
L77	1/2 - 1 Mile WNW	SSE
1G	1/2 - 1 Mile North	Varies
2G	1/2 - 1 Mile North	NW
3G	1/2 - 1 Mile WNW	SSE

* ©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

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
4G	1/2 - 1 Mile WNW	W

For additional site information, refer to Physical Setting Source Map Findings.

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

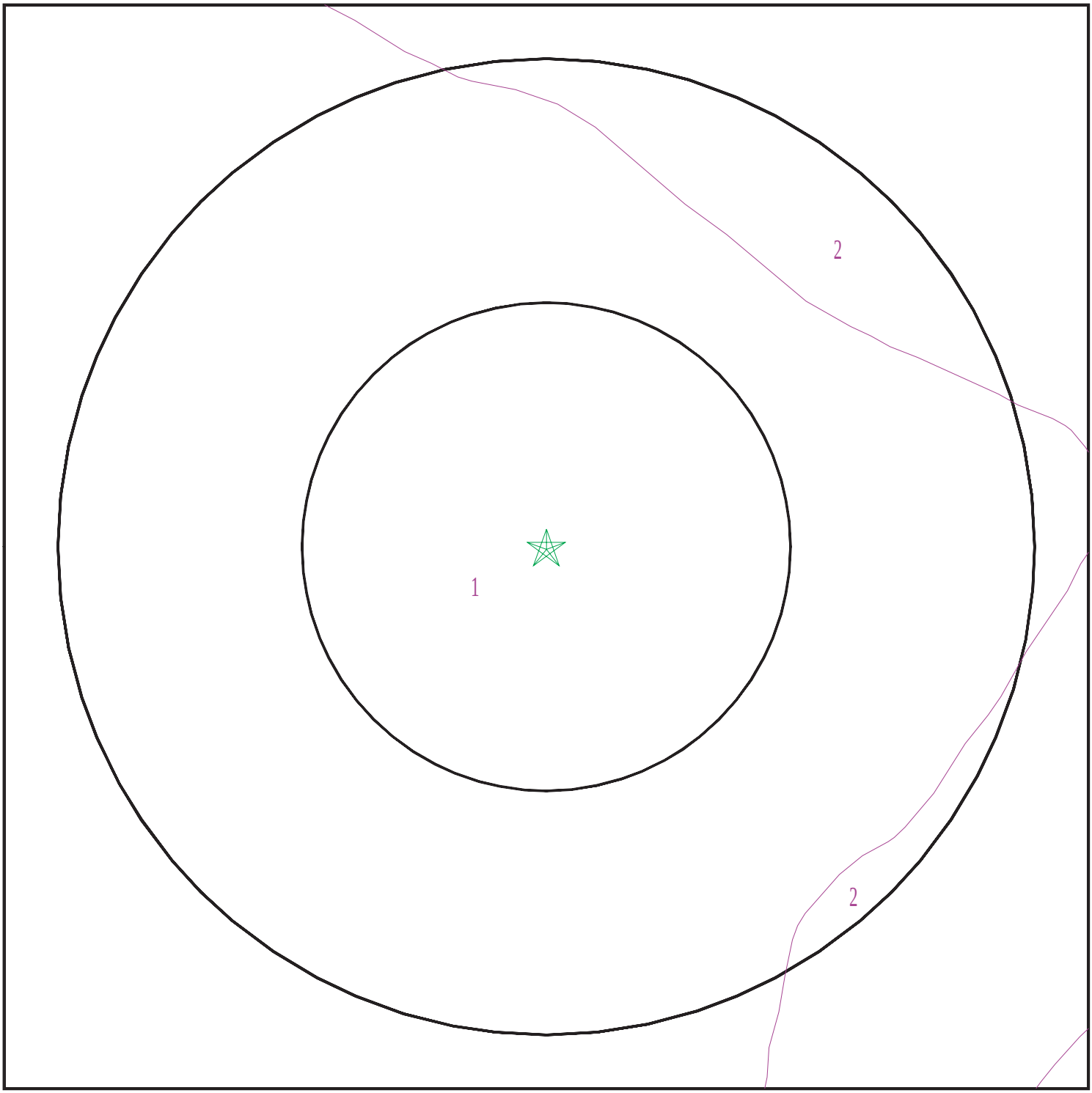
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

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).

SSURGO SOIL MAP - 6617648.3s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Washington Ave. San Leandro	CLIENT:	Roux Associates
ADDRESS:	14143-14273 Washington Ave San Leandro CA 94578	CONTACT:	Caelan Murphy
		INQUIRY #:	6617648.3s
LAT/LONG:	37.706535 / 122.144982	DATE:	August 12, 2021 1:00 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Clear Lake

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 137 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	25 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9
2	25 inches	59 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9

Soil Map ID: 2

Soil Component Name: Danville

Soil Surface Texture: silty clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	20 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
2	20 inches	53 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
3	53 inches	79 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

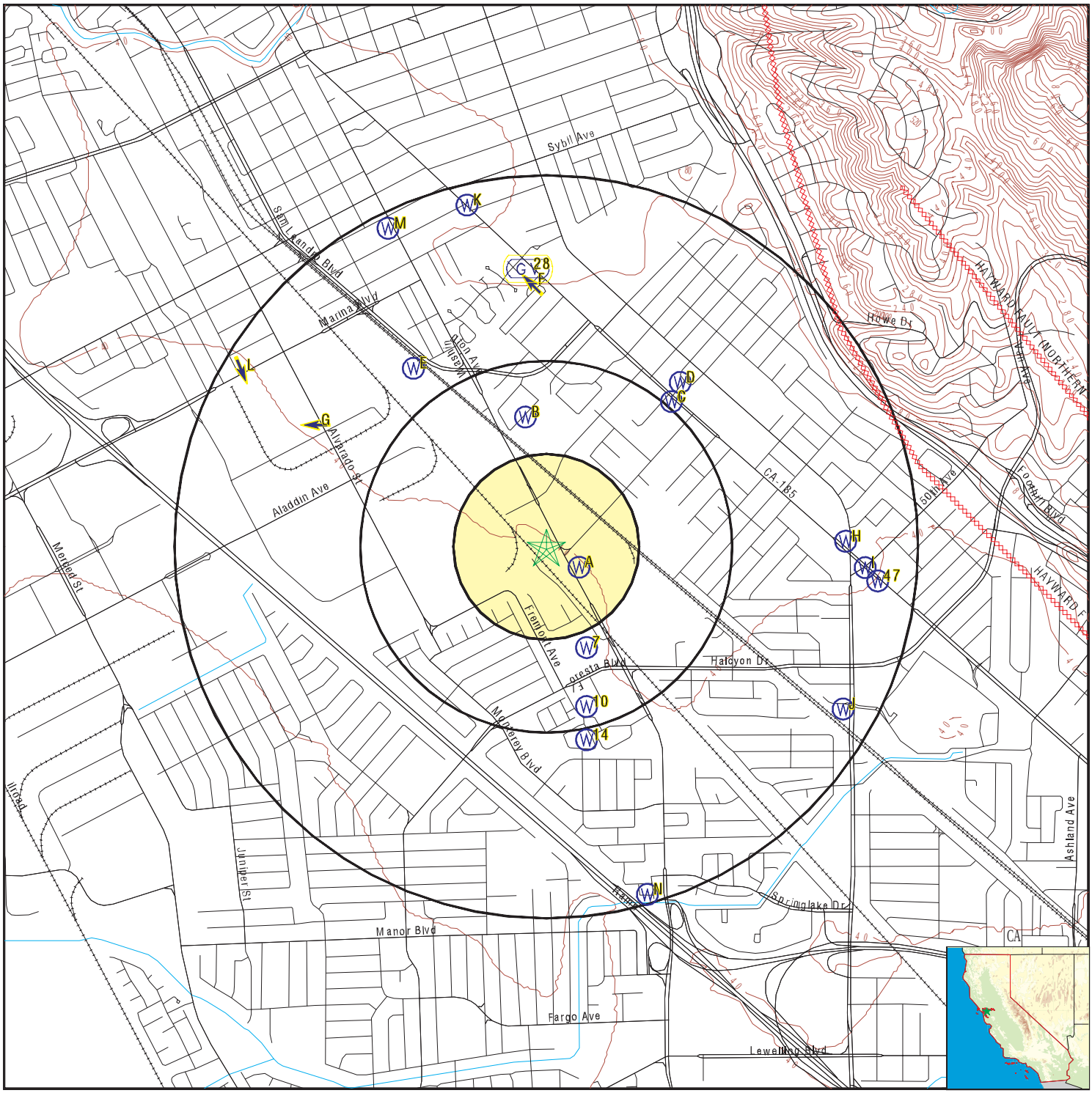
MAP ID	WELL ID	LOCATION FROM TP
A1	CAEDF0000109966	0 - 1/8 Mile SE
A2	CAEDF0000069080	0 - 1/8 Mile SE
A3	CAEDF0000008965	0 - 1/8 Mile ESE
A4	CAEDF0000020878	0 - 1/8 Mile ESE
A5	CAEDF0000005285	0 - 1/8 Mile ESE
A6	CAEDF0000068383	0 - 1/8 Mile SE
7	CADWR0000018791	1/4 - 1/2 Mile SSE
B8	CADWR9000037247	1/4 - 1/2 Mile North
B9	CADWR0000005244	1/4 - 1/2 Mile North
10	CADWR9000037159	1/4 - 1/2 Mile SSE
C11	CAEDF0000060312	1/4 - 1/2 Mile NE
C12	CAEDF0000137609	1/2 - 1 Mile NE
C13	CAEDF0000004215	1/2 - 1 Mile NE
14	CADWR0000000733	1/2 - 1 Mile SSE
C15	CAEDF0000037373	1/2 - 1 Mile NE
D16	CAEDF0000060803	1/2 - 1 Mile NE
D17	CAEDF0000124291	1/2 - 1 Mile NE
E18	CADWR0000005458	1/2 - 1 Mile NW
E19	CADWR9000037259	1/2 - 1 Mile NW
F20	4	1/2 - 1 Mile North
G21	CAEDF0000024059	1/2 - 1 Mile WNW
G22	CAEDF0000071966	1/2 - 1 Mile WNW
G23	CAEDF0000119844	1/2 - 1 Mile WNW
F24	CADDW0000014790	1/2 - 1 Mile North
G25	CAEDF0000020063	1/2 - 1 Mile WNW
H29	CAEDF0000112877	1/2 - 1 Mile East
H30	CAEDF0000058268	1/2 - 1 Mile East
H31	CAEDF0000059340	1/2 - 1 Mile East
H32	CAEDF0000067576	1/2 - 1 Mile East
I33	CAEDF0000005249	1/2 - 1 Mile East
I34	CAEDF0000130056	1/2 - 1 Mile East
I35	CAEDF0000115887	1/2 - 1 Mile East
I36	CAEDF0000048728	1/2 - 1 Mile East
I37	CAEDF0000098440	1/2 - 1 Mile East
I38	CAEDF0000091080	1/2 - 1 Mile East
I39	CAEDF0000089709	1/2 - 1 Mile East

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
I40	CAEDF0000013220	1/2 - 1 Mile East
I41	CAEDF0000099235	1/2 - 1 Mile East
I42	CAEDF0000117047	1/2 - 1 Mile East
I43	CAEDF0000056506	1/2 - 1 Mile East
I44	CAEDF0000133866	1/2 - 1 Mile East
I45	CAEDF0000070548	1/2 - 1 Mile East
I46	CAEDF0000114741	1/2 - 1 Mile East
47	CAEDF0000123763	1/2 - 1 Mile East
J48	CAEDF0000141050	1/2 - 1 Mile ESE
J49	CAEDF0000055282	1/2 - 1 Mile ESE
J50	CAEDF0000009205	1/2 - 1 Mile ESE
J51	CAEDF0000067920	1/2 - 1 Mile ESE
J52	CAEDF0000106173	1/2 - 1 Mile ESE
J53	CAEDF0000022310	1/2 - 1 Mile ESE
J54	CAEDF0000033929	1/2 - 1 Mile ESE
J55	CAEDF0000129918	1/2 - 1 Mile ESE
J56	CAEDF0000101277	1/2 - 1 Mile ESE
K57	CAEDF0000088452	1/2 - 1 Mile NNW
J58	CAEDF0000133864	1/2 - 1 Mile ESE
K59	CAEDF0000051255	1/2 - 1 Mile NNW
K60	CAEDF0000052434	1/2 - 1 Mile NNW
L61	CAEDF0000106961	1/2 - 1 Mile WNW
L62	CAEDF0000099467	1/2 - 1 Mile WNW
L63	CAEDF0000106544	1/2 - 1 Mile WNW
K64	CAEDF0000056946	1/2 - 1 Mile NNW
L65	CAEDF0000060715	1/2 - 1 Mile WNW
K66	CAEDF0000142477	1/2 - 1 Mile NNW
M67	CAEDF0000098085	1/2 - 1 Mile NNW
L68	CAEDF0000059082	1/2 - 1 Mile WNW
M69	CAEDF0000093187	1/2 - 1 Mile NNW
M70	CAEDF0000063509	1/2 - 1 Mile NNW
M71	CAEDF0000000652	1/2 - 1 Mile NNW
K72	CAEDF0000059170	1/2 - 1 Mile NNW
K73	CAEDF0000127212	1/2 - 1 Mile NNW
N74	CAEDF0000137828	1/2 - 1 Mile SSE
M75	CAEDF0000098942	1/2 - 1 Mile NNW
N76	CAEDF0000096864	1/2 - 1 Mile SSE
M78	CAEDF0000009214	1/2 - 1 Mile NNW
N79	CAEDF0000010658	1/2 - 1 Mile SSE
N80	CAEDF0000084160	1/2 - 1 Mile SSE
N81	CAEDF0000133651	1/2 - 1 Mile SSE
N82	CAEDF0000081672	1/2 - 1 Mile SSE
N83	CAEDF0000041835	1/2 - 1 Mile SSE
N84	CAEDF0000021755	1/2 - 1 Mile SSE
N85	CAEDF0000084050	1/2 - 1 Mile SSE
N86	CAEDF0000097221	1/2 - 1 Mile SSE
N87	CAEDF0000118227	1/2 - 1 Mile SSE

PHYSICAL SETTING SOURCE MAP - 6617648.3s



- 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:	Washington Ave. San Leandro	CLIENT:	Roux Associates
ADDRESS:	14143-14273 Washington Ave San Leandro CA 94578	CONTACT:	Caelan Murphy
		INQUIRY #:	6617648.3s
LAT/LONG:	37.706535 / 122.144982	DATE:	August 12, 2021 1:00 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
SE
0 - 1/8 Mile
Higher

CA WELLS **CAEDF0000109966**

Well ID:	T0600101043-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101043&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101043&assigned_name=MW-3		

A2
SE
0 - 1/8 Mile
Higher

CA WELLS **CAEDF0000069080**

Well ID:	T0600101043-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101043&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101043&assigned_name=MW-5		

A3
ESE
0 - 1/8 Mile
Higher

CA WELLS **CAEDF0000008965**

Well ID:	T0600101043-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101043&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101043&assigned_name=MW-2		

A4
ESE
0 - 1/8 Mile
Higher

CA WELLS **CAEDF0000020878**

Well ID:	T0600101043-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101043&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101043&assigned_name=MW-1		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A5
ESE
0 - 1/8 Mile
Higher

CA WELLS **CAEDF0000005285**

Well ID:	T0600101043-MW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101043&assigned_name=MW-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101043&assigned_name=MW-6		

A6
SE
0 - 1/8 Mile
Higher

CA WELLS **CAEDF0000068383**

Well ID:	T0600101043-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101043&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101043&assigned_name=MW-4		

7
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR0000018791**

Well ID:	03S03W01G003M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	03S03W01G003M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=03S03W01G003M&store_num=		
GeoTracker Data:	Not Reported		

B8
North
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR9000037247**

State Well #:	02S03W36L001M	Station ID:	2992
Well Name:	Not Reported	Basin Name:	East Bay Plain
Well Use:	Irrigation	Well Type:	Unknown
Well Depth:	120	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

B9
North
1/4 - 1/2 Mile
Higher | **CA WELLS** | **CADWR0000005244**

Well ID:	02S03W36L001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S03W36L001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S03W36L001M&store_num=		
GeoTracker Data:	Not Reported		

10
SSE
1/4 - 1/2 Mile
Lower | **CA WELLS** | **CADWR9000037159**

State Well #:	03S03W01G001M	Station ID:	4344
Well Name:	Not Reported	Basin Name:	East Bay Plain
Well Use:	Irrigation	Well Type:	Unknown
Well Depth:	701	Well Completion Rpt #:	107420

C11
NE
1/4 - 1/2 Mile
Higher | **CA WELLS** | **CAEDF0000060312**

Well ID:	T0600100794-(P)AZ-5	Well Type:	MONITORING
Source:	EDF	Other Name:	(P)AZ-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100794&assigned_name=(P)AZ-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100794&assigned_name=(P)AZ-5		

C12
NE
1/2 - 1 Mile
Higher | **CA WELLS** | **CAEDF0000137609**

Well ID:	T0600100794-(P)MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	(P)MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100794&assigned_name=(P)MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100794&assigned_name=(P)MW-2		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C13
NE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000004215**

Well ID:	T0600100794-(P)AZ-7	Well Type:	MONITORING
Source:	EDF	Other Name:	(P)AZ-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100794&assigned_name=(P)AZ-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100794&assigned_name=(P)AZ-7		

14
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000000733**

Well ID:	03S03W01K001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	03S03W01K001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=03S03W01K001M&store_num=		
GeoTracker Data:	Not Reported		

C15
NE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000037373**

Well ID:	T0600100794-(P)AZ-8	Well Type:	MONITORING
Source:	EDF	Other Name:	(P)AZ-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100794&assigned_name=(P)AZ-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100794&assigned_name=(P)AZ-8		

D16
NE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000060803**

Well ID:	T0600100794-(P)AZ-6	Well Type:	MONITORING
Source:	EDF	Other Name:	(P)AZ-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100794&assigned_name=(P)AZ-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100794&assigned_name=(P)AZ-6		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D17
NE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000124291**

Well ID:	T0600100794-(P)AZ-10	Well Type:	MONITORING
Source:	EDF	Other Name:	(P)AZ-10
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100794&assigned_name=(P)AZ-10&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100794&assigned_name=(P)AZ-10		

E18
NW
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000005458**

Well ID:	02S03W36M002M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S03W36M002M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S03W36M002M&store_num=		
GeoTracker Data:	Not Reported		

E19
NW
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000037259**

State Well #:	02S03W36M002M	Station ID:	2993
Well Name:	Not Reported	Basin Name:	East Bay Plain
Well Use:	Industrial	Well Type:	Unknown
Well Depth:	308	Well Completion Rpt #:	Not Reported

F20
North
1/2 - 1 Mile
Higher

CA WELLS **4**

Seq:	4	Prim sta c:	0103041-001
Frds no:	0103041001	County:	01
District:	04	User id:	ENG
System no:	0103041	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT
Latitude:	374259.2	Longitude:	1220840.0
Precision:	2	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	0103041	System nam:	Trailer Haven Mobilehome Park
Hqname:	Not Reported	Address:	2399 E. 14TH ST., 197

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

City:	SAN LEANDRO	State:	CA
Zip:	94577	Zip ext:	Not Reported
Pop serv:	275	Connection:	198
Area serve:	Not Reported		

Sample date:	16-NOV-16	Finding:	4.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	30-NOV-15	Finding:	1.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	14-JUL-15	Finding:	230.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	14-JUL-15	Finding:	2.2
Chemical:	TERT-BUTYL ALCOHOL	Report units:	UG/L
Dlr:	2.		

Sample date:	14-JUL-15	Finding:	8.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	14-JUL-15	Finding:	0.22
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		

Sample date:	14-JUL-15	Finding:	350.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	14-JUL-15	Finding:	110.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		

Sample date:	14-JUL-15	Finding:	2.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	14-JUL-15	Finding:	26.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	14-JUL-15	Finding:	34.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	14-JUL-15	Finding:	600.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

Sample date:	14-JUL-15	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		

Sample date:	14-JUL-15	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		

Sample date:	14-JUL-15	Finding:	280.

Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUL-15	Finding:	200.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUL-15	Finding:	40.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUL-15	Finding:	25.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUL-15	Finding:	55.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	22-DEC-14	Finding:	8.2
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-SEP-14	Finding:	1.64
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-SEP-14	Finding:	0.191
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-JUN-14	Finding:	1.16
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-JUN-14	Finding:	0.191
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-MAR-14	Finding:	1.16
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-MAR-14	Finding:	0.191
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-DEC-13	Finding:	2.01
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-DEC-13	Finding:	9.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-DEC-13	Finding:	0.22
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G21
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000024059**

Well ID:	T10000003620-MW3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T10000003620&assigned_name=MW3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000003620&assigned_name=MW3		

G22
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000071966**

Well ID:	T10000003620-MW4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T10000003620&assigned_name=MW4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000003620&assigned_name=MW4		

G23
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000119844**

Well ID:	T10000003620-MW1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T10000003620&assigned_name=MW1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000003620&assigned_name=MW1		

F24
North
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000014790**

Well ID:	0103041-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 01	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=0103041-001&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
G25 **WNW** **1/2 - 1 Mile** **Higher**			**CA WELLS**	**CAEDF0000020063**
Well ID:	T10000003620-MW2	Well Type:	MONITORING	
Source:	EDF	Other Name:	MW2	
GAMA PFAS Testing:	Not Reported			
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T10000003620&assigned_name=MW2&store_num=			
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000003620&assigned_name=MW2			

G26 **WNW** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-2129 W 22 25 Not Reported 01/31/1996	**AQUIFLOW**	**38194**

F27 **North** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-2324 NW Not Reported Not Reported 8.5 10/04/1990	**AQUIFLOW**	**67903**

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28 **North** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0367 Varies 5.7 5.8 Not Reported 06/1992	**AQUIFLOW**	**63791**

H29 **East** **1/2 - 1 Mile** **Higher**			**CA WELLS**	**CAEDF0000112877**
Well ID:	T0600132763-MW-1	Well Type:	MONITORING	
Source:	EDF	Other Name:	MW-1	
GAMA PFAS Testing:	Not Reported			
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600132763&assigned_name=MW-1&store_num=			
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600132763&assigned_name=MW-1			

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H30
East
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000058268**

Well ID:	T0600132763-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600132763&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600132763&assigned_name=MW-2		

H31
East
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000059340**

Well ID:	T0600132763-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600132763&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600132763&assigned_name=MW-3		

H32
East
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000067576**

Well ID:	T0600132763-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600132763&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600132763&assigned_name=MW-4		

I33
East
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000005249**

Well ID:	T0600102165-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102165&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102165&assigned_name=MW-1		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I34
East
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000130056**

Well ID:	T0600102165-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102165&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102165&assigned_name=MW-4		

I35
East
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000115887**

Well ID:	T0600102165-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102165&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102165&assigned_name=MW-2		

I36
East
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000048728**

Well ID:	T0600102165-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102165&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102165&assigned_name=MW-3		

I37
East
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000098440**

Well ID:	1136-MW-8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=1136&assigned_name=MW-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=1136&assigned_name=MW-8		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I38
East
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000091080**

Well ID:	T0600100912-MW-3A	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3A
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100912&assigned_name=MW-3A&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100912&assigned_name=MW-3A		

I39
East
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000089709**

Well ID:	1136-MW-9	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-9
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=1136&assigned_name=MW-9&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=1136&assigned_name=MW-9		

I40
East
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000013220**

Well ID:	T0600100912-MW-2A	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2A
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100912&assigned_name=MW-2A&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100912&assigned_name=MW-2A		

I41
East
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000099235**

Well ID:	T0600100912-MW-1A	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1A
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100912&assigned_name=MW-1A&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100912&assigned_name=MW-1A		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I42
East
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000117047**

Well ID:	1136-MW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=1136&assigned_name=MW-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=1136&assigned_name=MW-7		

I43
East
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000056506**

Well ID:	1136-MW-10	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-10
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=1136&assigned_name=MW-10&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=1136&assigned_name=MW-10		

I44
East
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000133866**

Well ID:	1136-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=1136&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=1136&assigned_name=MW-2		

I45
East
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000070548**

Well ID:	1136-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=1136&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=1136&assigned_name=MW-1		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I46
East
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000114741**

Well ID:	1136-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=1136&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=1136&assigned_name=MW-5		

47
East
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000123763**

Well ID:	1136-MW-11	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-11
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=1136&assigned_name=MW-11&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=1136&assigned_name=MW-11		

J48
ESE
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000141050**

Well ID:	T0600156445-MW4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600156445&assigned_name=MW4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600156445&assigned_name=MW4		

J49
ESE
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000055282**

Well ID:	T0600156445-MW5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600156445&assigned_name=MW5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600156445&assigned_name=MW5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

J50
ESE
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000009205**

Well ID:	T0600156445-MW2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600156445&assigned_name=MW2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600156445&assigned_name=MW2		

J51
ESE
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000067920**

Well ID:	T0600156445-MW1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600156445&assigned_name=MW1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600156445&assigned_name=MW1		

J52
ESE
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000106173**

Well ID:	T0600156445-MW3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600156445&assigned_name=MW3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600156445&assigned_name=MW3		

J53
ESE
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000022310**

Well ID:	T0600100084-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100084&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100084&assigned_name=MW-1		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

J54
ESE
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000033929**

Well ID:	T0600100084-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100084&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100084&assigned_name=MW-5		

J55
ESE
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000129918**

Well ID:	T0600100084-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100084&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100084&assigned_name=MW-2		

J56
ESE
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000101277**

Well ID:	T0600100084-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100084&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100084&assigned_name=MW-4		

K57
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000088452**

Well ID:	T0600102074-MW-8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102074&assigned_name=MW-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102074&assigned_name=MW-8		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

J58
ESE
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000133864**

Well ID:	T0600100084-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600100084&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600100084&assigned_name=MW-3		

K59
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000051255**

Well ID:	T0600102074-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102074&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102074&assigned_name=MW-2		

K60
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000052434**

Well ID:	T0600102074-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102074&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102074&assigned_name=MW-4		

L61
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000106961**

Well ID:	T0600167672-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600167672&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600167672&assigned_name=MW-4		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

L62
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000099467**

Well ID:	T0600167672-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600167672&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600167672&assigned_name=MW-5		

L63
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000106544**

Well ID:	T0600167672-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600167672&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600167672&assigned_name=MW-1		

K64
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000056946**

Well ID:	T0600102074-MW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102074&assigned_name=MW-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102074&assigned_name=MW-6		

L65
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000060715**

Well ID:	T0600167672-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600167672&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600167672&assigned_name=MW-3		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

K66
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000142477**

Well ID:	T0600102074-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102074&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102074&assigned_name=MW-5		

M67
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000098085**

Well ID:	T0600101765-U-1	Well Type:	MONITORING
Source:	EDF	Other Name:	U-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101765&assigned_name=U-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101765&assigned_name=U-1		

L68
WNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000059082**

Well ID:	T0600167672-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600167672&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600167672&assigned_name=MW-2		

M69
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000093187**

Well ID:	T0600101765-U-6	Well Type:	MONITORING
Source:	EDF	Other Name:	U-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101765&assigned_name=U-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101765&assigned_name=U-6		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

M70
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000063509**

Well ID:	T0600101765-U-7	Well Type:	MONITORING
Source:	EDF	Other Name:	U-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101765&assigned_name=U-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101765&assigned_name=U-7		

M71
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000000652**

Well ID:	T0600101765-U-3	Well Type:	MONITORING
Source:	EDF	Other Name:	U-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101765&assigned_name=U-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101765&assigned_name=U-3		

K72
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000059170**

Well ID:	T0600102074-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102074&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102074&assigned_name=MW-3		

K73
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000127212**

Well ID:	T0600102074-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600102074&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600102074&assigned_name=MW-1		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

N74
SSE
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000137828**

Well ID:	T0600137533-MW.06	Well Type:	MONITORING
Source:	EDF	Other Name:	MW.06
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600137533&assigned_name=MW.06&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600137533&assigned_name=MW.06		

M75
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000098942**

Well ID:	T0600101765-U-4	Well Type:	MONITORING
Source:	EDF	Other Name:	U-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101765&assigned_name=U-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101765&assigned_name=U-4		

N76
SSE
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000096864**

Well ID:	T0600137533-MW.08	Well Type:	MONITORING
Source:	EDF	Other Name:	MW.08
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600137533&assigned_name=MW.08&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600137533&assigned_name=MW.08		

L77
WNW
1/2 - 1 Mile
Lower

AQUIFLOW **38238**

Site ID:	01-1061
Groundwater Flow:	SSE
Shallow Water Depth:	19
Deep Water Depth:	21.5
Average Water Depth:	Not Reported
Date:	09/12/1995

M78
NNW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000009214**

Well ID:	T0600101765-U-2	Well Type:	MONITORING
Source:	EDF	Other Name:	U-2

GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600101765&assigned_name=U-2&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600101765&assigned_name=U-2

N79
SSE **CA WELLS** **CAEDF0000010658**
1/2 - 1 Mile
Lower

Well ID: T0600137533-MW.03 Well Type: MONITORING
Source: EDF Other Name: MW.03
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600137533&assigned_name=MW.03&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600137533&assigned_name=MW.03

N80
SSE **CA WELLS** **CAEDF0000084160**
1/2 - 1 Mile
Lower

Well ID: T0600137533-MW.02 Well Type: MONITORING
Source: EDF Other Name: MW.02
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600137533&assigned_name=MW.02&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600137533&assigned_name=MW.02

N81
SSE **CA WELLS** **CAEDF0000133651**
1/2 - 1 Mile
Lower

Well ID: T0600137533-MW.10 Well Type: MONITORING
Source: EDF Other Name: MW.10
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600137533&assigned_name=MW.10&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600137533&assigned_name=MW.10

N82
SSE **CA WELLS** **CAEDF0000081672**
1/2 - 1 Mile
Lower

Well ID: T0600137533-MW.07 Well Type: MONITORING
Source: EDF Other Name: MW.07
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600137533&assigned_name=MW.07&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600137533&assigned_name=MW.07

N83
SSE **CA WELLS** **CAEDF0000041835**
1/2 - 1 Mile
Lower

Well ID:	T0600137533-MW.11	Well Type:	MONITORING
Source:	EDF	Other Name:	MW.11
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600137533&assigned_name=MW.11&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600137533&assigned_name=MW.11		

N84
SSE **CA WELLS** **CAEDF0000021755**
1/2 - 1 Mile
Lower

Well ID:	T0600137533-MW.01	Well Type:	MONITORING
Source:	EDF	Other Name:	MW.01
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600137533&assigned_name=MW.01&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600137533&assigned_name=MW.01		

N85
SSE **CA WELLS** **CAEDF0000084050**
1/2 - 1 Mile
Lower

Well ID:	T0600137533-MW.04	Well Type:	MONITORING
Source:	EDF	Other Name:	MW.04
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600137533&assigned_name=MW.04&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600137533&assigned_name=MW.04		

N86
SSE **CA WELLS** **CAEDF0000097221**
1/2 - 1 Mile
Lower

Well ID:	T0600137533-MW.05	Well Type:	MONITORING
Source:	EDF	Other Name:	MW.05
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600137533&assigned_name=MW.05&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600137533&assigned_name=MW.05		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

		Database	EDR ID Number
N87 **SSE** **1/2 - 1 Mile** **Lower**		**CA WELLS**	**CAEDF0000118227**

Well ID:	T0600137533-MW.09	Well Type:	MONITORING
Source:	EDF	Other Name:	MW.09
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0600137533&assigned_name=MW.09&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0600137533&assigned_name=MW.09		

1G **North** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0367 Varies 5.7 5.8 Not Reported 06/1992	**AQUIFLOW**	**63791**

2G **North** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-2324 NW Not Reported Not Reported 8.5 10/04/1990	**AQUIFLOW**	**67903**

3G **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1061 SSE 19 21.5 Not Reported 09/12/1995	**AQUIFLOW**	**38238**

4G **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-2129 W 22 25 Not Reported 01/31/1996	**AQUIFLOW**	**38194**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94578	16	1

Federal EPA Radon Zone for ALAMEDA 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 Zip Code: 94578

Number of sites tested: 3

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.100 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

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.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX G

Regulatory Records Documentation

City of San Leandro
Environmental Services Section
Hazardous Materials and Waste (CUPA) Registration
March 1, 2019 - February 28, 2020

Facility: Zermenos Custom Ironworks
Address: 14143 Washington Av Unit A

Customer #: 27226
Fees Paid: $418.00
Date Paid: 6/19/19

You are currently registered for the following CUPA programs:

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	1
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	1
Flammable Gas	1	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		
Hazardous Waste Generator Class			N/A
Number of Underground Storage Tanks			0
On-Site Hazardous Waste Treatment Registration			
Accidental Release Program Facility Registration			No
Above Ground Petroleum Storage Tank Program Registration			No

CESQG: (Conditionally Exempt Small Quantity Generator) - generates less than 100 kilograms (27 gallons or 220 pounds) of hazardous waste per month.

SQG: (Small Quantity Generator) - generates more than 100 kilograms (27 gallons or 220 pounds), but less than 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

LQG: (Large Quantity Generator) - generates more than or equal to 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

PBR: Permit by Rule **CA**: Conditionally Authorized **CE**: Conditionally Exempt

Quantity Range 1: Less than 500 lbs, 55 gal, or 2,000 cubic feet at STP
Quantity Range 2: 500 lbs, 55 gal, or 2,000 cu ft @ STP to 5,000 lbs, 550 gallons, or 20,000 cu ft @ STP
Quantity Range 3: 5,000 lbs, 550 gal, or 20,000 cu ft @ STP to 50,000 lbs, 5,500 gal, or 200,000 cu ft @ STP
Quantity Range 4: 50,000 lbs, 5,500 gal, or 200,000 cu ft @STP to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft@ STP
Quantity Range 5: Greater than or equal to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft @ STP

Mailed to:

Zermeno's Custom Ironworks
Attn: Alejandra Zermeno, Owner
14143 Washington Ave, Unit A
San Leandro, CA 94578

City of San Leandro
Civic Center, 835 E. 14th Street
San Leandro, California 94577
www.sanleandro.org

DELINQUENT CUPA REGULATORY PROGRAM FEES

Zermeno's Custom Ironworks, 14143-A Washington Avenue

This notice is being sent to all San Leandro business owners and property owners as landlord of said regulated business due to seriously delinquent Certified Unified Program Agency (CUPA) regulatory program fees.

Pursuant to Section 1-12-600(f) of the San Leandro Municipal Code, the City has authority to assess delinquent amounts against the property owner. These assessments, if not paid, become a lien on the real property and appear on the 2019/20 property tax bill. **To prevent this tax lien, the amount due must be paid in full no later than 12:00 p.m., on Monday, July 8, 2019.**

The City has made numerous attempts to collect the delinquent amount to no avail. We are, therefore, giving notice that the City will proceed with an assessment of a lien against the real property for the unpaid CUPA amounts attached.

The names of regulated business owners and associated property owners having delinquent assessments and the amount due will appear on the list of **delinquent accounts to be considered by the City Council at a public hearing on Monday, July 15, 2019.** The hearing will be held at 7:00 p.m. in the City Council Chambers, 835 East 14th Street, San Leandro. The purpose of this hearing is to receive testimony regarding the unpaid CUPA assessments becoming a lien on the real property.

If you have any questions regarding this bill, please call Tiffany Treece, Environmental Protection Specialist, at (510) 577-6031. For questions regarding the July 15, 2019 public hearing, contact Mary Ann Perini, Budget & Compliance Manager, at (510) 577-3324. If the amount due is paid in full by Monday, July 8, 2019, no further action will be taken by the City.

Sincerely,

David Baum

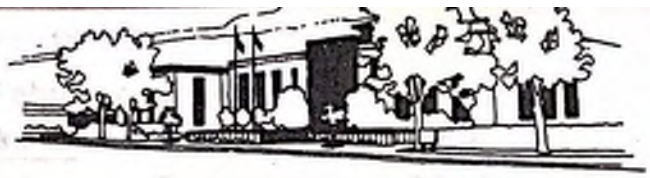
David Baum
Finance Director

Attachments [Finance Statement & CUPA Fee Summary]

I/CUPA/Admin/2019 Lien Pending Ltr-Delinquent CUPA Fees

Pauline Russo Cutter, Mayor
City Council: Victor Aguilar, Jr. Pete Ballew Deborah Cox
Ed Hernandez Benny Lee Corina N. López

City of San Leandro
Civic Center, 835 E. 14th Street
San Leandro, California 94577
www.sanleandro.org



May 16, 2019

Alejandra Zermeno
Zermeno's Custom Iron Works
14143-A Washington Avenue
San Leandro, CA 94578

Dear Alejandra Zermeno:

SUBJECT: Reminder Notice - 2019-2020 CUPA Registration Fee

Your CUPA registration payment is now overdue (account #27226). In order to comply with annual CUPA registration requirements, please pay by May 31, 2019 the balance due as reflected on the May, 2019 statement mailed to you by our Finance Department. Upon receipt of your payment, Environmental Services will issue the required CUPA Registration covering the period from March, 2019 through February, 2020.

Failure to pay the CUPA Registration fee will result in the City proceeding with an assessment of a lien against the property for the amount owing.

If you have questions or need additional information, please contact the Finance Department at (510) 577-3382 or Environmental Services at (510) 577-3401.

Thank you.

Sincerely,

Tiffany Treece
Environmental Protection Specialist

gs

I/CUPA/Admin/Ltr-OverdueCUPAFeeLeinNotice

Pauline Russo Cutter, Mayor
City Council: Victor Aguilar, Jr. Pete Ballew Deborah Cox
Ed Hernandez Benny Lee Corina N. López

Hazardous Materials and Waste (CUPA) Fee Summary

March 1, 2019 - February 28, 2020

Facility: Zermenos Custom Ironworks Fiscal Year: 2019

Address: 14143 Washington Av, Unit A Customer #: 27226

City of San Leandro Annual Permit/Registration Fees	
Hazardous Material Storage Fee:	$369.00
Underground Storage Tank Fee:	$0.00
Hazardous Waste Generator Fee:	$0.00
On-Site Hazardous Waste Treatment Fee:	$0.00
CalARP Fee:	$0.00
APSA Fee:	$0.00
State of California Annual Service Fees	
State Service Fee for each Facility:	$49.00
State Underground Storage Tank Service Fee:	$0.00
State Accidental Release Program Service Fee:	$0.00
State APSA fee:	$0.00
Total Amount Due:	**$418.00**

HAZARDOUS MATERIALS AND WASTE PROGRAM REGISTRATION INFORMATION

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	1
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	1
Flammable Gas	1	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		

Hazardous Waste Generator Class	No
Number of Underground Storage Tanks	0
On-Site Hazardous Waste Treatment Registration	N/A
Accidental Release Program Facility Registration	N/A
Above Ground Petroleum Storage Tank Program Registration (APSA)	No

Hazardous Materials and Waste (CUPA) Registration

March 1, 2018 - February 28, 2019

Facility: Zermenos Custom Ironworks
Address: 14143 Washington Av Unit A

Customer #: 27226
Fees Paid: $406.00
Date Paid: 3/15/18

You are currently registered for the following CUPA programs:

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	1
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	1
Flammable Gas	1	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		
Hazardous Waste Generator Class			N/A
Number of Underground Storage Tanks			0
On-Site Hazardous Waste Treatment Registration			
Accidental Release Program Facility Registration			No
Above Ground Petroleum Storage Tank Program Registration			No

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Quantity Range 3: 5,000 lbs, 550 gal, or 20,000 cu ft @ STP to 50,000 lbs, 5,500 gal, or 200,000 cu ft @ STP
Quantity Range 4: 50,000 lbs, 5,500 gal, or 200,000 cu ft @STP to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft@ STP
Quantity Range 5: Greater than or equal to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft @ STP

Mailed to:

Zermeno's Custom Ironworks
Attn: Alejandra Zermeno, Owner
14143 Washington Ave, Unit A
San Leandro, CA 94578

Hazardous Materials and Waste (CUPA) Fee Summary

March 1, 2018 - February 28, 2019

Facility: Zermenos Custom Ironworks Fiscal Year: 2018

Address: 14143 Washington Av, Unit A Customer #: 27226

City of San Leandro Annual Permit/Registration Fees	
Hazardous Material Storage Fee:	$357.00
Underground Storage Tank Fee:	$0.00
Hazardous Waste Generator Fee:	$0.00
On-Site Hazardous Waste Treatment Fee:	$0.00
CalARP Fee:	$0.00
APSA Fee:	$0.00
State of California Annual Service Fees	
State Service Fee for each Facility:	$49.00
State Underground Storage Tank Service Fee:	$0.00
State Accidental Release Program Service Fee:	$0.00
State APSA fee:	$0.00
Total Amount Due:	**$406.00**

HAZARDOUS MATERIALS AND WASTE PROGRAM REGISTRATION INFORMATION

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	1
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	1
Flammable Gas	1	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		

Hazardous Waste Generator Class	No
Number of Underground Storage Tanks	0
On-Site Hazardous Waste Treatment Registration	N/A
Accidental Release Program Facility Registration	N/A
Above Ground Petroleum Storage Tank Program Registration (APSA)	No

Hazardous Materials and Waste (CUPA) Registration

March 1, 2017 - February 28, 2018

Facility: Zermeno's Custom Ironworks

Address: 14143 Washington Av Unit A

Customer #: 27226

Fees Paid: $394.48

Date Paid: 6/15/17

You are currently registered for the following CUPA programs:

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	1
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	1
Flammable Gas	1	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		
Hazardous Waste Generator Class			N/A
Number of Underground Storage Tanks			0
On-Site Hazardous Waste Treatment Registration			
Accidental Release Program Facility Registration			No
Above Ground Petroleum Storage Tank Program Registration			No

CESQG: (Conditionally Exempt Small Quantity Generator) - generates less than 100 kilograms (27 gallons or 220 pounds) of hazardous waste per month.

SQG: (Small Quantity Generator) - generates more than 100 kilograms (27 gallons or 220 pounds), but less than 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

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Quantity Range 3: 5,000 lbs, 550 gal, or 20,000 cu ft @ STP to 50,000 lbs, 5,500 gal, or 200,000 cu ft @ STP

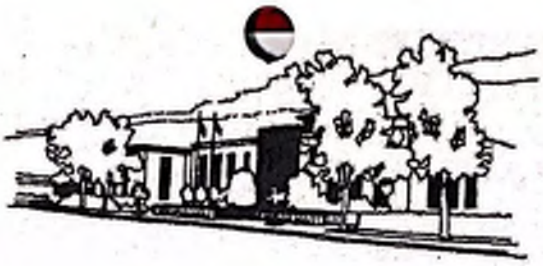
Quantity Range 4: 50,000 lbs, 5,500 gal, or 200,000 cu ft @STP to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft@ STP

Quantity Range 5: Greater than or equal to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft @ STP

Mailed to:

Zermeno's Custom Ironworks
Attn: Alejandra Zermeno, Owner
14143 Washington Ave, Unit A
San Leandro, CA 94578

City of San Leandro
Civic Center, 835 E. 14th Street
San Leandro, California 94577



NOTICE OF DELINQUENT CUPA REGULATORY PROGRAM FEES

Zermeno's Custom Ironworks, 14143-A Washington Avenue

This notice is being sent to all San Leandro business owners and property owners as landlord of said regulated business due to seriously delinquent Certified Unified Program Agency (CUPA) regulatory program fees.

Pursuant to Section 1-12-600(f) of the San Leandro Municipal Code, the City has authority to assess delinquent amounts against the property owner. These assessments, if not paid, become a lien on the real property and appear on the 2017/18 property tax bill. **To prevent this tax lien, the amount due must be paid in full no later than 12:00 p.m., on Monday, July 10, 2017.**

The City has made numerous attempts to collect the delinquent amount to no avail. We are, therefore, giving notice that the City will proceed with an assessment of a lien against the real property for the unpaid CUPA amounts attached.

The names of regulated business owners and associated property owners having delinquent assessments and the amount due will appear on the list of **delinquent accounts to be considered by the City Council at a public hearing on Monday, July 17, 2017**. The hearing will be held at 7:00 p.m. in the City Council Chambers, 835 East 14th Street, San Leandro. The purpose of this hearing is to receive testimony regarding the unpaid CUPA assessments becoming a lien on the real property.

If you have any questions regarding this bill, please call Tiffany Treece, Environmental Protection Specialist, at (510) 577-6031. For questions regarding the July 17, 2017 public hearing, contact Mary Ann Perini, Budget & Compliance Manager, at (510) 577-3324. If the amount due is paid in full by Monday, July 10, 2017, no further action will be taken by the City.

Sincerely,

David Baum

David Baum
Finance Director

Attachments [Finance Statement & CUPA Fee Summary]
I/CUPA/Admin/2017 Lien Pending Letter-Delinquent CUPA Fees

Pauline Russo Cutter, Mayor

City Council: Pete Ballew, Deborah Cox, Ed Hernandez, Benny Lee, Corina N. López, Lee Thomas

CITY OF SAN LEANDRO
ACCOUNTS RECEIVABLE
835 E.14TH STREET
SAN LEANDRO, CA 94577
(510) 577-3382

STATEMENT

DATE 6/1/2017

ACCOUNT NO. 27226

NET DUE
394.48
AMOUNT ENCLOSED

ZERMENO'S CUSTOM IRONWORKS
ALEJANDRA ZERMENO
14143 WASHINGTON AVE UNIT A
SAN LEANDRO. CA 94578

MAKE CHECKS PAYABLE TO THE CITY OF SAN LEANDRO
PLEASE DETACH AND RETURN WITH YOUR REMITTANCE

ACCOUNT NO. 27226

DATE	REFERENCE NO.	DESCRIPTION	CHARGES	BALANCE
		** BALANCE FORWARD **		388.74
5/1/2017	358807	CUPA	2.87	391.61
6/1/2017	359296	CUPA	2.87	394.48

THIS ACCOUNT IS DELINQUENT. THE ENTIRE BALANCE IS DUE AND PAYABLE. PURSUANT TO SECTION 1-12-600(F) OF THE SAN LEANDRO MUNICIPAL CODE, THE CITY HAS THE AUTHORITY TO ASSESS SUCH DELINQUENT AMOUNTS AGAINST THE PROPERTY OWNER. SUCH ASSESSMENTS, IF NOT PAID, WILL BECOME A LIEN O THE REAL PROPERTY JULY 17, 2017 AND WILL APPEAR ON THE 2017-18 PROPERTY TAX BILL. AN ADDITIONAL $20.00 ADMINISTRATIVE FEE FOR PLACEMENT OF DELINQUENT BALANCES WILL BE ADDED TO THE ASSESSMENTS. IF YOU HAVE ANY QUESTION, OR ARE IN DISPUTE OF THIS CLAIM, PLEASE CALL THE ENVIRONMENTAL SERVICES DEPT @ (510) 577-3401. THANK YOU FOR YOUR PROMPT ATTENTION TO THIS MATTER.

PERIOD CLOSING DATE	6/1/2017	TO AVOID INTEREST CHARGES PLEASE RETURN UPPER PORTION WITH YOUR REMITTANCE BY THE 20TH OF THIS MONTH

PLEASE REMIT TO: CITY OF SAN LEANDRO INQUIRES: (510) 577-3382

CHARGES AND CREDITS MADE AFTER BILLING DATE WILL APPEAR ON NEXT STATEMENT

OVER 120 DAYS	91-120 DAYS	61-90 DAYS	31-60 DAYS	CURRENT	NET DUE
0.00	385.87	2.87	2.87	2.87	394.48

City of San Leandro
Environmental Services Section

Hazardous Materials and Waste (CUPA) Fee Summary

March 1, 2017 - February 28, 2018

Facility: Zermeno's Custom Ironworks Fiscal Year: 2017

Address: 14143 Washington Av, Unit A Customer #: 27226

City of San Leandro Annual Permit/Registration Fees	
Hazardous Material Storage Fee:	$348.00
Underground Storage Tank Fee:	$0.00
Hazardous Waste Generator Fee:	$0.00
On-Site Hazardous Waste Treatment Fee:	$0.00
CalARP Fee:	$0.00
APSA Fee:	$0.00
State of California Annual Service Fees	
State Service Fee for each Facility:	$35.00
State Underground Storage Tank Service Fee:	$0.00
State Accidental Release Program Service Fee:	$0.00
State APSA fee:	$0.00
Total Amount Due:	**$383.00**

HAZARDOUS MATERIALS AND WASTE PROGRAM REGISTRATION INFORMATION

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	1
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	1
Flammable Gas	1	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		

Hazardous Waste Generator Class	No
Number of Underground Storage Tanks	0
On-Site Hazardous Waste Treatment Registration	N/A
Accidental Release Program Facility Registration	N/A
Above Ground Petroleum Storage Tank Program Registration (APSA)	No

City of San Leandro
Civic Center, 835 E. 14th Street
San Leandro, California 94577
www.sanleandro.org

May 16, 2017

Alejandra Zermeno
Zermeno's Custom Ironworks
14143-A Washington Avenue
San Leandro, CA 94578

Dear Alejandra Zermeno:

SUBJECT: Reminder Notice - 2017-2018 CUPA Registration Fee

Your CUPA registration payment is now overdue (account #27226). In order to comply with annual CUPA registration requirements, please pay by May 31, 2017 the balance due as reflected on the May, 2017 statement mailed to you by our Finance Department. Upon receipt of your payment, Environmental Services will issue the required CUPA Registration covering the period from March, 2017 through February, 2018.

Failure to pay the CUPA Registration fee will result in the City proceeding with an assessment of a lien against the property for the amount owing.

If you have questions or need additional information, please contact the Finance Department at (510) 577-3382 or Environmental Services at (510) 577-3401.

Thank you.

Sincerely,

Tiffany Treece

Tiffany Treece
Environmental Protection Specialist

gs

I/EPSL/CUPA/Admin/Ltr-OverdueCUPAFeeLeinNotice

Pauline Russo Cutter, Mayor
City Council: Pete Ballew Deborah Cox Ed Hernandez
Benny Lee Corina N. López Lee Thomas

City of San Leandro
Environmental Services Section
Hazardous Materials and Waste (CUPA) Registration
March 1, 2016 - February 28, 2017

Facility: Zermeno's Custom Ironworks
Address: 14143 Washington Av Unit A

Customer #: 27226
Fees Paid: $379.62
Date Paid: 6/1/16

You are currently registered for the following CUPA programs:

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	1
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	1
Flammable Gas	1	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		
Hazardous Waste Generator Class			N/A
Number of Underground Storage Tanks			0
On-Site Hazardous Waste Treatment Registration			
Accidental Release Program Facility Registration			No
Above Ground Petroleum Storage Tank Program Registration			No

CESQG: (Conditionally Exempt Small Quantity Generator) - generates less than 100 kilograms (27 gallons or 220 pounds) of hazardous waste per month.

SQG: (Small Quantity Generator) - generates more than 100 kilograms (27 gallons or 220 pounds), but less than 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

LQG: (Large Quantity Generator) - generates more than or equal to 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

PBR: Permit by Rule **CA**: Conditionally Authorized **CE**: Conditionally Exempt

Quantity Range 1: Less than 500 lbs, 55 gal, or 2,000 cubic feet at STP
Quantity Range 2: 500 lbs, 55 gal, or 2,000 cu ft @ STP to 5,000 lbs, 550 gallons, or 20,000 cu ft @ STP
Quantity Range 3: 5,000 lbs, 550 gal, or 20,000 cu ft @ STP to 50,000 lbs, 5,500 gal, or 200,000 cu ft @ STP
Quantity Range 4: 50,000 lbs, 5,500 gal, or 200,000 cu ft @STP to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft@ STP
Quantity Range 5: Greater than or equal to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft @ STP

Mailed to:

Zermeno's Custom Ironworks
Attn: Alejandra Zermeno, Owner
14143 Washington Ave, Unit A
San Leandro, CA 94578

City of San Leandro
Civic Center, 835 E. 14th Street
San Leandro, California 94577
www.sanleandro.org

May 17, 2016

Alejandra Zermeno
Owner
Zermeno's Custom Ironworks
14143-A Washington Avenue
San Leandro, CA 94578

Dear Alejandra Zermeno:

SUBJECT: Reminder Notice - 2016-2017 CUPA Registration Fee

Your CUPA registration payment is now overdue (account #27226). In order to comply with annual CUPA registration requirements, please pay by May 31, 2016 the balance due as reflected on the May, 2016 statement mailed to you by our Finance Department. Upon receipt of your payment, Environmental Services will issue the required CUPA Registration covering the period from March, 2016 through February, 2017.

Failure to pay the CUPA Registration fee will result in the City proceeding with an assessment lien against the property for the amount owing.

If you have questions or need additional information, please contact the Finance Department at (510) 577-3382 or Environmental Services at (510) 577-3401.

Thank you.

Sincerely,

John Camp
Environmental Services Supervisor

JC:gs

I/EPS1//CUPA/Admin/Ltr-OverdueCUPAFeeLeinNotice

Pauline Russo Cutter, Mayor
City Council: Deborah Cox, Jim Prola, Benny Lee, Ursula Reed, Corina N. López, Lee Thomas

City of San Leandro
Environmental Services Section

Hazardous Materials and Waste (CUPA) Fee Summary

March 1, 2016 - February 28, 2017

Facility: Zermeno's Custom Ironworks Fiscal Year: 2016

Address: 14143 Washington Av, Unit A Customer #: 27226

City of San Leandro Annual Permit/Registration Fees	
Hazardous Material Storage Fee:	$339.00
Underground Storage Tank Fee:	$0.00
Hazardous Waste Generator Fee:	$0.00
On-Site Hazardous Waste Treatment Fee:	$0.00
CalARP Fee:	$0.00
APSA Fee:	$0.00
State of California Annual Service Fees	
State Service Fee for each Facility:	$35.00
State Underground Storage Tank Service Fee:	$0.00
State Accidental Release Program Service Fee:	$0.00
State APSA fee:	$0.00
Total Amount Due:	**$374.00**

HAZARDOUS MATERIALS AND WASTE PROGRAM REGISTRATION INFORMATION

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	1
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	1
Flammable Gas	1	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		
Hazardous Waste Generator Class			No
Number of Underground Storage Tanks			0
On-Site Hazardous Waste Treatment Registration			N/A
Accidental Release Program Facility Registration			N/A
Above Ground Petroleum Storage Tank Program Registration (APSA)			No

City of San Leandro
Environmental Services Section
Hazardous Materials and Waste (CUPA) Registration
March 1, 2015 - February 28, 2016

Facility: Zermeno's Custom Ironworks
Address: 14143 Washington Av Unit A

Customer #: 27226
Fees Paid: $282.50
Date Paid: 6/5/15

You are currently registered for the following CUPA programs:

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	1
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	1
Flammable Gas	1	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		
Hazardous Waste Generator Class			N/A
Number of Underground Storage Tanks			0
On-Site Hazardous Waste Treatment Registration.			
Accidental Release Program Facility Registration			No
Above Ground Petroleum Storage Tank Program Registration			No

CESQG: (Conditionally Exempt Small Quantity Generator) - generates less than 100 kilograms (27 gallons or 220 pounds) of hazardous waste per month.

SQG: (Small Quantity Generator) - generates more than 100 kilograms (27 gallons or 220 pounds), but less than 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

LQG: (Large Quantity Generator) - generates more than or equal to 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

PBR: Permit by Rule **CA**: Conditionally Authorized **CE**: Conditionally Exempt

Quantity Range 1: Less than 500 lbs, 55 gal, or 2,000 cubic feet at STP
Quantity Range 2: 500 lbs, 55 gal, or 2,000 cu ft @ STP to 5,000 lbs, 550 gallons, or 20,000 cu ft @ STP
Quantity Range 3: 5,000 lbs, 550 gal, or 20,000 cu ft @ STP to 50,000 lbs, 5,500 gal, or 200,000 cu ft @ STP
Quantity Range 4: 50,000 lbs, 5,500 gal, or 200,000 cu ft @STP to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft@ STP
Quantity Range 5: Greater than or equal to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft @ STP

Mailed to:
Zermeno's Custom Ironworks
Attn: Alejandra Zermeno, Owner
14143 Washington Ave, Unit A
San Leandro, CA 94578

New 6/2015

Annual CUPA Fees Tracking Worksheet

Creation Date: 5/29/15
Fiscal Year: 2015
Customer #:

Print 5160 Label

Facility: Zermeno's Custom Ironworks
Address: 14143 Washington Av Unit

CUPA Fees Waived: ○ Yes ● No

	Initial	Final
Combustible Liquid	0	
Corrosive	0	
Explosive	0	
Flammable Gas	1	
Flammable Liquid	0	
Flammable Solid	0	
Misc. Haz Mat	0	
NonFlammable Gas	1	
Organic Peroxide	0	
Oxidizer	1	
Poisonous Gas	0	
Poisonous Material	0	
Radioactive	No	

Comments:
Prorated for June 2015 thru February 2016. jac

	Initial	Final
Hazardous Waste Generator Class:	N/A	
Number of Underground Storage Tanks:	0	
On-Site Hazardous Waste Treatment Registration:	N/A	
Accidental Release Program Facility Registration:	N/A	

Initial Billing		Adjustments
Hazardous Materials Storage Fee:	$330.00	-$82.50
Underground Storage Tank Fee:	$0.00	
Hazardous Waste Generator Fee:	$0.00	
On-Site Hazardous Waste Treatment Fee:	$0.00	
CalARP Fee:	$0.00	
State Service Fee for each Facility:	$35.00	
State Underground Storage Tank Service Fee:	$0.00	
State Accidental Release Program Service Fee:	$0.00	
Total Amount Due at Billing time:	$365.00	
Total Adjustment made to Initial Billing:		-$82.50
Ultimate Amount Due:	$282.50	

Total Ultimate Bill for all Facilities: $282.50
Total Collected for all Facilities:
Amount Collected:
Date Collected:

COPY

City of San Leandro
Environmental Services Section

Hazardous Materials and Waste (CUPA) Fee Summary

March 1, 2015 - February 28, 2016

Facility: Zermeno's Custom Ironworks Fiscal Year: 2015

Address: 14143 Washington Av, Unit A Customer #:

City of San Leandro Annual Permit/Registration Fees	
Hazardous Material Storage Fee:	$330.00
Underground Storage Tank Fee:	$0.00
Hazardous Waste Generator Fee:	$0.00
On-Site Hazardous Waste Treatment Fee:	$0.00
CalARP Fee:	$0.00
APSA Fee	$0.00
State of California Annual Service Fees	
State Service Fee for each Facility:	$35.00
State Underground Storage Tank Service Fee:	$0.00
State Accidental Release Program Service Fee:	$0.00
State APSA fee:	$0.00
Total Amount Due:	**$365.00**

HAZARDOUS MATERIALS AND WASTE PROGRAM REGISTRATION INFORMATION

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	1
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	1
Flammable Gas	1	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		

Hazardous Waste Generator Class	No
Number of Underground Storage Tanks	0
On-Site Hazardous Waste Treatment Registration	N/A
Accidental Release Program Facility Registration	N/A
Above Ground Petroleum Storage Tank Program Registration (APSA)	No

Business Change Notification Form

Effective Date: 05/29/15

CUPA Mailing Address	Pretreatment Mailing Address
Business Name: Zermeno's Custom Ironworks Attention: Alejandra Zermeno, Owner Address: 14143 Washington Ave Unit A City, State Zip: San Leandro, CA 94578	Zermeno's Custom Ironworks Attn: Alejandra "Alex" Zermeno, Owner 14143 Washington Av Unit A San Leandro, CA 94578
CUPA A/R #:	A/R Lab #: A/R SVC: Utility #: A/R SUR:
☐ This is an existing business with a mailing address change	☐ This is an existing business with a mailing address change
☐ This is an existing business that has closed, please close out their account.	☐ This is an existing business that has closed, please revert them to standard sewer billing rates.

☒ This is a new business, please assign the following customer numbers and **submit them to ESD**

- ☒ CUPA A/R # 27224 ☐ SWF A/R #
- ☐ Lab A/R #
- ☐ Surcharge (WPC)#
- ☐ Service (SVS) # - Begin billing monthly Service charge of

- ☐ Credit account # for the amount
- ☐ Reinvoice Account # for the amount (see attached fee summary)
- ☒ Invoice Account # CUPA AR for $282.50 (see attached fee summary) ✓ Done 6/5/15

Street Address:
Zermeno's Custom Ironworks
Alvaro "Al" Zermeno, Owner
14143 Washington Av, Unit A
San Leandro, CA 94578

Comments:

Submitted By: Camp

Annual CUPA Fees Tracking Worksheet

Creation Date: 5/29/15
Fiscal Year: 2015
Customer #:

Print 5160 Label

Facility: Zermeno's Custom Ironworks
Address: 14143 Washington Av Unit

CUPA Fees Waived: ○ Yes ◉ No

	Initial	Final
Combustible Liquid	0	
Corrosive	0	
Explosive	0	
Flammable Gas	1	
Flammable Liquid	0	
Flammable Solid	0	
Misc. Haz Mat	0	
NonFlammable Gas	1	
Organic Peroxide	0	
Oxidizer	1	
Poisonous Gas	0	
Poisonous Material	0	
Radioactive	No	

Comments:
Prorated for June 2015 thru February 2016. jac

	Initial	Final
Hazardous Waste Generator Class:	N/A	
Number of Underground Storage Tanks:	0	
On-Site Hazardous Waste Treatment Registration:	N/A	
Accidental Release Program Facility Registration:	N/A	

Initial Billing		Adjustments
Hazardous Materials Storage Fee:	$330.00	-$82.50
Underground Storage Tank Fee:	$0.00	
Hazardous Waste Generator Fee:	$0.00	
On-Site Hazardous Waste Treatment Fee:	$0.00	
CalARP Fee:	$0.00	
State Service Fee for each Facility:	$35.00	
State Underground Storage Tank Service Fee:	$0.00	
State Accidental Release Program Service Fee:	$0.00	
Total Amount Due at Billing time:	$365.00	
Total Adjustment made to Initial Billing:		-$82.50
Ultimate Amount Due:	$282.50	

Total Ultimate Bill for all Facilities:	$282.50	**Amount Collected:**	
Total Collected for all Facilities:		**Date Collected:**	

Firm Zermeno's Custom Iron Works

Account # 27486

Firm	Zermeno's Custom Iron Works			**Bus. Status**	Pending
Firm (Add'l)				**Lic. Status**	Collection 2011/2012/2
Street	14143 Washington Av			**Acct No**	27486
City	San Leandro, CA 94578			**License**	27486
Location	Inside	**Loc. Type**		**Phone**	(510) 614-2900
Mail (Add'l)				**Alt Phone**	(___) ___-
Mail Addr	14143 Washington Av			**Start Date**	11/05/2004
Mail City	San Leandro, CA 94578			**Close Date**	
Bus. Rate	Manufacturing		**Ownership**	Partnership	
			Geo Area		
			Insp. Area	MBIA-FN	**Insp. Status**
Last Rec Update	02/10/2015 dll				

Summary Screen

Owner 1	Alvaro Zermeno	**Title**		**Phone**	--ON FILE--
Owner 2	Alejandra Zermeno	**Title**		**Phone**	--ON FILE--
License Issued	02/10/2015	**Application**	Renewal		
License Expires	12/31/2015	**Renewal**	Annual (end of Dec)		
NAIC Code	332321 - Metal Window and Door Manufacturing				
SIC Code	~~3442001 - Metal Doors, Sash, Frames, Molding, And Trim~~ 3446 ORNAMENTAL METALWORK-MFG 1799 - INSTALLATION CONTRACTOR				
Bus Type	064 - Manufacturing				
APN	077B122200303	**FEIN**	-	**MBIA**	
BEAN	SRCHA 097815255	**SEIN**	--	**Zoning**	

Owner Information

Owner	Zermeno, Alvaro					**Title**	
Street	15646 Wagner St					**Drive Lic.**	
City	San Lorenzo, CA 94580					**SSN**	--ON FILE--
Start Date		**Owner Status**	Active	**Bus Owner**	Y	**Phone**	(510) 481-1644
End Date		**Date of Birth**		**Prop Owner**	N	**Phone 2**	(___) ___-

Owner	Zermeno, Alejandra					**Title**	
Street	15646 Wagner St					**Drive Lic.**	
City	San Lorenzo, CA 94580					**SSN**	--ON FILE--
Start Date		**Owner Status**	Active	**Bus Owner**	Y	**Phone**	(510) 481-1644
End Date		**Date of Birth**		**Prop Owner**	N	**Phone 2**	(___) ___-

Emergency Contact(s)

Name		**Title**	
Street	14143 Washington Av	**Phone**	(510) 614-2900
City	San Leandro, CA 94578	**Phone2**	

CERS ID
10630429

California Environmental Reporting System (CERS) — Business Owner Operator

Facility/Site

Zermenos Custom Ironworks
14143 Washington Ave Unit A
San Leandro, CA 94578

CERS ID
10630429

Submittal Status

Submitted on 5/29/2015 by *Alvaro Zermeo* of Zermenos Custom Ironworks (San Leandro, CA)

Identification

Alvaro Zermeno

Operator Phone	Business Phone	Business Fax	Beginning Date	Ending Date	
(510) 614-2900	(510) 614-2900	(510) 614-2940	5/29/2015		
			Dun & Bradstreet	SIC Code	Primary NAICS
				3446	

Facility/Site Mailing Address

14143 Washington Ave. Unit A
San Leandro, CA 94578

Primary Emergency Contact

Alvaro Zermeno
Title
Owner

Business Phone	24-Hour Phone	Pager Number
(510) 614-2900	(510) 377-8323	

Owner

Alvaro Zermeno
(510) 614-2900
14143 Washington Ave Unit A
San Leandro, CA 94578

Secondary Emergency Contact

Alejandra Zermeno
Title
Owner

Business Phone	24-Hour Phone	Pager Number
(510) 614-2900	(510) 377-8324	

Billing Contact

Alejandra Zermeno
(510) 614-2900 alzermeno@sbcglobal.net
14143 Washington Ave Unit A
San Leandro, CA 94578

Environmental Contact

Alvaro Zermeno
(510) 614-2900 alzermeno@sbcglobal.net
14143 Washington Ave Unit A
San Leandro, CA 94578

Name of Signer	Signer Title	Document Preparer
Alvaro Zermeo	Owner	Alvaro Zermeo

Additional Information

Locally-collected Fields

Some or all of the following fields may be required by your local regulator(s).

Property Owner

Phone

Mailing Address

Assessor Parcel Number (APN)

Number of Employees
5

Facility ID
01-007-101381

California Environmental Reporting System (CERS) — Business Activities

Site Identification

Zermenos Custom Ironworks
14143 Washington Ave Unit A
San Leandro, CA 94578
County
Alameda

CERS ID
10630429
EPA ID Number

Submittal Status

Submitted on 5/29/2015 by *Alvaro Zermeo* of Zermenos Custom Ironworks (San Leandro, CA)

Hazardous Materials

Does your facility have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or is regulated under more restrictive inventory local reporting requirements (shown below if present); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	Yes

Underground Storage Tank(s) (UST)

Does your facility own or operate underground storage tanks?	No

Hazardous Waste

Is your facility a Hazardous Waste Generator?	No
Does your facility treat hazardous waste on-site?	No
Is your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	No
Does your facility consolidate hazardous waste generated at a remote site?	No
Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site?	No
Does your facility generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month, or accumulate at any time, 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate or accumulate at any time more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste.	No
Is your facility a Household Hazardous Waste (HHW) Collection site?	No

Excluded and/or Exempted Materials

Does your facility recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	No
Does your facility own or operate ASTs above these thresholds? Store greater than 1,320 gallons of petroleum products (new or used) in aboveground tanks or containers.	No
Does your facility have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)?	No

Additional Information

No additional comments provided.

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **Zermenos Custom Ironworks**
Facility Name **Zermenos Custom Ironworks**
14143 Washington Ave Unit A, San Leandro 94578

Chemical Location
Welding / Fab Shops

CERS ID **10630429**
Facility ID
Status **Submitted on 5/29/2015 11:18 AM**

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Largest Cont.	Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 2.1 - Flammable Gases Flammable Gas	**Propane** CAS No 74-98-6 Map: 1 Grid: C3, B5	**Cu. Feet** State: Gas Type: Pure	**2836** Storage Container: Cylinder Days on Site: 365	**851**	1418 Pressure: > Ambient Temperature: < Ambient	Waste Code	- Fire - Pressure Release				
DOT: 2.1 - Flammable Gases Unstable (Reactive), Class 2, Flammable Gas	**Acetylene** CAS No 74-86-2 Map: 1 Grid: C3, B5	**Cu. Feet** State: Gas Type: Pure	**525** Storage Container: Cylinder Days on Site: 365	**145**	263 Pressue: > Ambient Temperature: < Ambient	Waste Code	- Fire - Reactive - Pressure Release - Acute Health				
DOT: 2.2 - Nonflammable Gases Oxidizing, Class 2	**Oxygen** CAS No 7782-44-7 Map: 1 Grid: C3, B5	**Cu. Feet** State: Gas Type: Pure	**656** Storage Container: Cylinder Days on Site: 365	**282**	328 Pressue: > Ambient Temperature: < Ambient	Waste Code	- Fire - Reactive - Pressure Release				
DOT: 2.2 - Nonflammable Gases	**Carbon Dioxide** CAS No 124-38-9 Map: 1 Grid: C3, B5	**Cu. Feet** State: Gas Type: Pure	**405** Storage Container: Cylinder Days on Site: 365	**405**	203 Pressue: > Ambient Temperature: < Ambient	Waste Code	- Pressure Release - Acute Health - Chronic health				
DOT: 2.2 - Nonflammable Gases	**Argon Compressed** CAS No 7440-37-1 Map: 1 Grid: C3, B5	**Cu. Feet** State: Gas Type: Pure	**318** Storage Container: Cylinder Days on Site: 365	**318**	159 Pressue: > Ambient Temperature: < Ambient	Waste Code	- Pressure Release				
DOT: 2.2 - Nonflammable Gases	**Argon / carbon dioxide** CAS No 70343-43-0 Map: 1 Grid: C3, B5	**Cu. Feet** State: Gas Type: Pure	**318** Storage Container: Cylinder Days on Site: 365	**318**	159 Pressue: > Ambient Temperature: < Ambient	Waste Code	- Pressure Release				

CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS)

CONSOLIDATED EMERGENCY RESPONSE / CONTINGENCY PLAN

Prior to completing this Plan, please refer to the INSTRUCTIONS FOR COMPLETING A CONSOLIDATED CONTINGENCY PLAN

A. FACILITY IDENTIFICATION AND OPERATIONS OVERVIEW

FACILITY ID #	A1. CERS ID	A2. DATE OF PLAN PREPARATION/REVISION
01-007-101381	10630429	5/29/2015

BUSINESS NAME *(Same as Facility Name or DBA - Doing Business As)* 3.
Zermeno's Custom Ironworks

BUSINESS SITE ADDRESS 103.
14143 Washington Ave, Unit A

BUSINESS SITE CITY 104.		ZIP CODE 105.
San Leandro	CA	94578

TYPE OF BUSINESS (e.g., Painting Contractor) A3.	INCIDENTAL OPERATIONS (e.g., Fleet Maintenance) A4.
Mfg Architectural & Oranamental Metal Work	Installation contractor

THIS PLAN COVERS CHEMICAL SPILLS, FIRES, AND EARTHQUAKES INVOLVING: (Check all that apply) A5.

☒ 1. HAZARDOUS MATERIALS; ☐ 2. HAZARDOUS WASTES

B. INTERNAL RESPONSE

INTERNAL FACILITY EMERGENCY RESPONSE WILL OCCUR VIA: (Check all that apply) B1.

☒ 1. CALLING PUBLIC EMERGENCY RESPONDERS (i.e., 9-1-1)
☐ 2. CALLING HAZARDOUS WASTE CONTRACTOR
☐ 3. ACTIVATING IN-HOUSE EMERGENCY RESPONSE TEAM

C. EMERGENCY COMMUNICATIONS, PHONE NUMBERS AND NOTIFICATIONS

Whenever there is an imminent or actual emergency situation such as an explosion, fire, or release, the Emergency Coordinator (or his/her designee when the Emergency Coordinator is on call) shall:

1. Activate internal facility alarms or communications systems, where applicable, to notify all facility personnel.
2. Notify appropriate local authorities (i.e., call 9-1-1).
3. Notify the California Emergency Management Agency at (800) 852-7550.

Before facility operations are resumed in areas of the facility affected by the incident, the emergency coordinator shall notify the California Department of Toxic Substances Control (DTSC), the local Unified Program Agency (UPA), and the local fire department's hazardous materials program that the facility is in compliance with requirements to:

1. Provide for proper storage and disposal of recovered waste, contaminated soil or surface water, or any other material that results from an explosion, fire, or release at the facility; and
2. Ensure that no material that is incompatible with the released material is transferred, stored, or disposed of in areas of the facility affected by the incident until cleanup procedures are completed.

INTERNAL FACILITY EMERGENCY COMMUNICATIONS OR ALARM NOTIFICATION WILL OCCUR VIA: (Check all that apply) C1.

☒ 1. VERBAL WARNINGS; ☐ 2. PUBLIC ADDRESS OR INTERCOM SYSTEM; ☒ 3. TELEPHONE;
☐ 4. PAGERS; ☐ 5. ALARM SYSTEM; ☐ 6. PORTABLE RADIO

NOTIFICATIONS TO NEIGHBORING FACILITIES THAT MAY BE AFFECTED BY AN OFF-SITE RELEASE WILL OCCUR BY: (Check all that apply) C2.

☒ 1. VERBAL WARNINGS; ☐ 2. PUBLIC ADDRESS OR INTERCOM SYSTEM; ☒ 3. TELEPHONE;
☐ 4. PAGERS; ☐ 5. ALARM SYSTEM; ☐ 6. PORTABLE RADIO

EMERGENCY RESPONSE PHONE NUMBERS:	AMBULANCE, FIRE, POLICE AND CHP		9-1-1
	CALIFORNIA EMERGENCY MANAGEMENT AGENCY (CAL/EMA)		(800) 852-7550
	NATIONAL RESPONSE CENTER (NRC)		(800) 424-8802
	POISON CONTROL CENTER		(800) 222-1222
	LOCAL UNIFIED PROGRAM AGENCY (UPA/CUPA)		(510) 577-3401 C3.
	OTHER (Specify):	San Leandro Public Works C4.	(510) 577-3440 C5.
NEAREST MEDICAL FACILITY / HOSPITAL NAME:		San Leandro Hospital, 13855 E 14TH ST, 94578 C6.	(510) 357-6500 C7.
AGENCY NOTIFICATION PHONE NUMBERS:	CALIFORNIA DEPT. OF TOXIC SUBSTANCES CONTROL (DTSC)		(916) 255-3545
	REGIONAL WATER QUALITY CONTROL BOARD		(510) 622-2369 C8.
	U.S. ENVIRONMENTAL PROTECTION AGENCY (US EPA)		(800) 300-2193
	CALIFORNIA DEPT OF FISH AND GAME (DFG)		(916) 358-2900
	U.S. COAST GUARD		(202) 267-2180
	CAL/OSHA		(916) 263-2800
	STATE FIRE MARSHAL		(916) 445-8200
	OTHER (Specify):	San Leandro PD non-emergency C9.	(510) 638-2123 C10.
	OTHER (Specify):	C11.	C12.

D. EMERGENCY CONTAINMENT AND CLEANUP PROCEDURES

SPILL PREVENTION, CONTAINMENT, AND CLEANUP PROCEDURES: (Check all boxes that apply to indicate your procedures for containing spills, releases, fires or explosions, and preventing and mitigating associated harm to persons, property, and the environment.) D1.

- ☒ 1. MONITOR FOR LEAKS, RUPTURES, PRESSURE BUILD-UP, ETC.;
- ☐ 2. PROVIDE STRUCTURAL PHYSICAL BARRIERS (e.g., Portable spill containment walls);
- ☐ 3. PROVIDE ABSORBENT PHYSICAL BARRIERS (e.g., Pads, pigs, pillows);
- ☐ 4. COVER OR BLOCK FLOOR AND/ OR STORM DRAINS;
- ☐ 5. BUILT-IN BERM IN WORK / STORAGE AREA;
- ☐ 6. AUTOMATIC FIRE SUPPRESSION SYSTEM;
- ☒ 7. ELIMINATE SOURCES OF IGNITION FOR FLAMMABLE HAZARDS (e.g. Flammable liquids, Propane);
- ☒ 8. STOP PROCESSES AND/OR OPERATIONS;
- ☐ 9. AUTOMATIC / ELECTRONIC EQUIPMENT SHUT-OFF SYSTEM;
- ☒ 10. SHUT-OFF WATER, GAS, ELECTRICAL UTILITIES AS APPROPRIATE;
- ☒ 11. CALL 9-1-1 FOR PUBLIC EMERGENCY RESPONDER ASSISTANCE / MEDICAL AID;
- ☒ 12. NOTIFY AND EVACUATE PERSONS IN ALL THREATENED AREAS;
- ☒ 13. ACCOUNT FOR EVACUATED PERSONS IMMEDIATELY AFTER EVACUATION CALL;
- ☐ 14. PROVIDE PROTECTIVE EQUIPMENT FOR ON-SITE RESPONSE TEAM;
- ☒ 15. REMOVE OR ISOLATE CONTAINERS / AREA AS APPROPRIATE;
- ☒ 16. HIRE LICENSED HAZARDOUS WASTE CONTRACTOR;
- ☐ 17. USE ABSORBENT MATERIAL FOR SPILLS WITH SUBSEQUENT PROPER LABELING, STORAGE, AND HAZARDOUS WASTE DISPOSAL AS APPROPRIATE;
- ☐ 18. SUCTION USING SHOP VACUUM WITH SUBSEQUENT PROPER LABELING, STORAGE, AND HAZARDOUS WASTE DISPOSAL AS APPROPRIATE;
- ☐ 19. WASH / DECONTAMINATE EQUIPMENT W/ CONTAINMENT and DISPOSAL OF EFFLUENT / RINSATE AS HAZARDOUS WASTE;
- ☒ 20. PROVIDE SAFE TEMPORARY STORAGE OF EMERGENCY-GENERATED WASTES;
- ☐ 21. OTHER (Specify): D2.

E. FACILITY EVACUATION

THE FOLLOWING ALARM SIGNAL(S) WILL BE USED TO BEGIN EVACUATION OF THE FACILITY (CHECK ALL THAT APPLY): E1.

- ☐ 1. BELLS;
- ☐ 2. HORNS/SIRENS;
- ☒ 3. VERBAL (I.E., SHOUTING);
- ☐ 4. OTHER (Specify): E2.

THE FOLLOWING LOCATION(S) IS/ARE EVACUEE EMERGENCY ASSEMBLY AREA(S) (i.e., Front parking lot, specific street corner, etc.) E3.

Washington Ave entrance sidewalk

Note: The Emergency Coordinator must account for all on site employees and/or site visitors after evacuation. E4.

☒ EVACUATION ROUTE MAP(S) POSTED AS REQUIRED

Note: The map(s) must show primary and alternate evacuation routes, emergency exits, and primary and alternate staging areas, and must be prominently posted throughout the facility in locations where it will be visible to employees and visitors.

F. ARRANGEMENTS FOR EMERGENCY SERVICES

Explanation of Requirement: Advance arrangements with local fire and police departments, hospitals, and/or emergency services contractors should be made as appropriate for your facility. You may determine that such arrangements are not necessary.

ADVANCE ARRANGEMENTS FOR LOCAL EMERGENCY SERVICES (Check one of the following) F1.

- ☒ 1. HAVE BEEN DETERMINED NOT NECESSARY; *or* F2.
- ☐ 2. THE FOLLOWING ARRANGEMENTS HAVE BEEN MADE (Specify):

Rev. 06/27/11

G. EMERGENCY EQUIPMENT

Check all boxes that apply to list emergency response equipment available at the facility and identify the location(s) where the equipment is kept and the equipment's capability, if applicable. [e.g. ☒ CHEMICAL PROTECTIVE GLOVES | Spill response kit | One time use, Oil & solvent resistant only.]

TYPE	EQUIPMENT AVAILABLE	LOCATION	CAPABILITY *(If applicable)*
Safety and First Aid	1. ☐ CHEMICAL PROTECTIVE SUITS, APRONS, OR VESTS	G1 / G2	G3
	2. ☐ CHEMICAL PROTECTIVE GLOVES	G4	G5
	3. ☐ CHEMICAL PROTECTIVE BOOTS	G6	G7
	4. ☒ SAFETY GLASSES / GOGGLES / SHIELDS	G8 Shop area	G9
	5. ☐ HARD HATS	G10	G11
	6. ☐ CARTRIDGE RESPIRATORS	G12	G13
	7. ☐ SELF-CONTAINED BREATHING APPARATUS (SCBA)	G14	G15
	8. ☒ FIRST AID KITS / STATIONS	G16 Shop & Office area	G17
	9. ☐ PLUMBED EYEWASH FOUNTAIN / SHOWER	G18	G19
	10. ☐ PORTABLE EYEWASH KITS	G20	G21
	11. ☐ OTHER	G22	G23
	12. ☐ OTHER	G24	G25
Fire Fighting	13. ☒ PORTABLE FIRE EXTINGUISHERS	G26 Shop area &office	G27
	14. ☐ FIXED FIRE SYSTEMS / SPRINKLERS / FIRE HOSES	G28	G29
	15. ☐ FIRE ALARM BOXES OR STATIONS	G30	G31
	16. ☐ OTHER	G32	G33
Spill Control and Clean-Up	17. ☐ ALL-IN-ONE SPILL KIT	G34	G35
	18. ☐ ABSORBENT MATERIAL	G36	G37
	19. ☐ CONTAINER FOR USED ABSORBENT	G38	G39
	20. ☐ BERMING / DIKING EQUIPMENT	G40	G41
	21. ☐ BROOM	G42	G43
	22. ☐ SHOVEL	G44	G45
	23. ☐ SHOP VAC	G46	G47
	24. ☐ EXHAUST HOOD	G48	G49
	25. ☐ EMERGENCY SUMP / HOLDING TANK	G50	G51
	26. ☐ CHEMICAL NEUTRALIZERS	G52	G53
	27. ☐ GAS CYLINDER LEAK REPAIR KIT	G54	G55
	28. ☐ SPILL OVERPACK DRUMS	G56	G57
	29. ☐ OTHER	G58	G59
Communi-cations and Alarm Systems	30. ☒ TELEPHONES (Includes cellular)	G60	G61
	31. ☐ INTERCOM / PA SYSTEM	G62	G63
	32. ☐ PORTABLE RADIOS	G64	G65
	33. ☐ AUTOMATIC ALARM CHEMICAL MONITORING EQUIPMENT	G66	G67
Other	34. ☐ OTHER	G68	G69
	35. ☐ OTHER	G70	G71

H. EARTHQUAKE VULNERABILITY

Identify areas of the facility that are vulnerable to hazardous materials releases / spills due to earthquake-related motion. These areas require immediate isolation and inspection.

VULNERABLE AREAS: (Check all that apply) H1.	LOCATIONS (e.g., shop, outdoor shed, forensic lab)
☒ 1. HAZARDOUS MATERIALS / WASTE STORAGE AREA	Gas cylinder storage & use areas in shop and on vehicles H2.
☐ 2. PROCESS LINES / PIPING	H3.
☐ 3. LABORATORY	H4.
☐ 4. WASTE TREATMENT AREA	H5.

Identify mechanical systems vulnerable to releases / spills due to earthquake-related motion. These systems require immediate isolation and inspection.

VULNERABLE SYSTEMS: (Check all that apply) H6.	LOCATIONS
☒ 1. SHELVES, CABINETS AND RACKS	Shop & office H7.
☐ 2. TANKS (EMERGENCY SHUTOFF)	H8.
☒ 3. PORTABLE GAS CYLINDERS	Shop areas and vehicles H9.
☒ 4. EMERGENCY SHUTOFF AND/OR UTILITY VALVES	see site map H10.
☐ 5. SPRINKLER SYSTEMS	H11.
☐ 6. STATIONARY PRESSURIZED CONTAINERS (e.g., Propane dispensing tank)	H12.

I. EMPLOYEE TRAINING

Explanation of Requirement: Employee training is required for all employees handling hazardous materials and hazardous wastes in day-to-day or clean-up operations including volunteers and/or contractors. Training must be:

- Provided within 6 months for new hires;
- Amended as necessary prior to change in process or work assignment;
- Given upon modification to the Emergency Response / Contingency Plan, and updated/refreshed annually for all employees.

Required content includes all of the following:

- Material Safety Data Sheets;
- Hazard communication related to health and safety;
- Methods for safe handling of hazardous substances;
- Fire hazards of materials / processes;
- Conditions likely to worsen emergencies;
- Coordination of emergency response;
- Notification procedures;
- Applicable laws and regulations;
- Communication and alarm systems;
- Personal protective equipment;
- Use of emergency response equipment (e.g. Fire extinguishers, respirators, etc.);
- Decontamination procedures;
- Evacuation procedures;
- Control and containment procedures;
- UST monitoring system equipment and procedures (if applicable).

INDICATE HOW EMPLOYEE TRAINING PROGRAM IS ADMINISTERED (Check all that apply) I1.

☐ 1. FORMAL CLASSROOM; ☒ 2. VIDEOS; ☒ 3. SAFETY / TAILGATE MEETINGS;

☐ 4. STUDY GUIDES / MANUALS (Specify): _____ I2.

☐ 5. OTHER (Specify): _____ I3.

☐ 6. NOT APPLICABLE BECAUSE FACILITY HAS NO EMPLOYEES

Large Quantity Generator (LQG) Training Records: Large quantity hazardous waste generators (i.e., who generate more than 270 gallons/1,000 kilograms of hazardous waste per month) must retain written documentation of employee hazardous waste management training sessions which includes:

- A written outline/agenda of the type and amount of both introductory and continuing training that will be given to persons filling each job position having responsibility for the management of hazardous waste (e.g., labeling, manifesting, compliance with accumulation time limits, etc.).
- The name, job title, and date of training for each hazardous waste management training session given to an employee filling such a job position; and
- A written job description for each of the above job positions that describes job duties and the skills, education, or other qualifications required of personnel assigned to the position.
- Current employee training records must be retained until closure of the facility.
- Former employee training records must be retained at least three years after termination of employment.

J. LIST OF ATTACHMENTS

(Check one of the following) J1.

☒ 1. NO ATTACHMENTS ARE REQUIRED; *or*

☐ 2. THE FOLLOWING DOCUMENTS ARE ATTACHED: J2.

K. SIGNATURE / CERTIFICATION

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete, and that a copy is available on site.

SIGNATURE OF OWNER/OPERATOR	DATE SIGNED K1.
	5/29/2015
NAME OF SIGNER (print) K2.	TITLE OF SIGNER K3.
Alejandra Zermeno	Owner

City of San Leandro
Civic Center, 835 E. 14th Street
San Leandro, California 94577
www.sanleandro.org

March 7, 2018

Alejandra Zermeno, Owner
Zermeno's Custom Ironworks
14143-A Washington Avenue
San Leandro, CA 94578

Dear Alejandra Zermeno:

SUBJECT: Hazardous Materials Business Plan (HMBP)
ANNUAL SUBMITTAL OVERDUE

California Health & Safety Code sections 25508(a)(1) and 25508.2 require that your HMBP be reviewed and all elements submitted annually on the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov

Your HMBP submittal is overdue and your facility is in violation of the above referenced citations.

To assist you, enclosed are step-by-step instructions for resubmitting your HMBP. If you have questions or need assistance, please contact me at 510-577-6027 or jyun@sanleandro.org.

Thank you.

Sincerely,

Jason Yun
Environmental Protection Specialist

gs
Enc.

I/CUPA/Admin/Ltr-OverdueCERS Submittal-JY

Pauline Russo Cutter, Mayor
City Council: Pete Ballew, Deborah Cox, Ed Hernandez, Benny Lee, Corina N. López, Lee Thomas

City of San Leandro
Environmental Services Division
835 East 14th Street, San Leandro, CA 94577, (510) 577-3401
INSPECTION REPORT

Date: 9/18/15	**Time:** 0800	**Inspector:** Camp
Business Name: Zermeno's Custom Ironworks		
Contact: Alvaro "Al" Zermeno		**Title:** Owner
Business Address: 14143 Washington Av, Unit A		**Phone:** 510-614-2900

Reason for Inspection: Routine **Class:** N/A

Inspected Manufacturing Facilities:	Yes	Copies of all MSDS on file:	Yes
Inspected Process Used:	Yes	Inspected Spill Prevention Procedures:	Yes
Inspected Pretreatment Facilities:	N/A	Self Monitoring Procedures:	N/A
Inspected Substances Discharged:	No	Inspected Laboratory Procedures:	N/A
Inspected Chemical Storage:	Yes	Follow-Up Required:	No
Drainage:	Yes	Enforcement:	Yes
Inspected Waste Manifest:	N/A	Slug Control Plan Evaluated	N/A

Inspection Notes:

Initial routine inspection for CUPA Hazardous Materials Business Plan, CA Fire Code and Stormwater Industrial programs. Minor fire code violation, need to post an NFPA 704 Placard on exterior of facility.

Looked up the NFPA placard numbers-letters and provided. Have reduced the large number of empty compressed gas bottles by returning to supplier. Bottles in two storage locations match Inventory. Normal ornamental metal operations are all indoors except some incidental spray painting. Spray painting area has no signs of over spray on ground. BMPs in place to use magnets and collect all the small bits of scrap metal. Provided information on paint care program for recycling of unusable paint in cans, recycling empty aerosol cans as scrap metal and if need to do a one-time clean up to dispose of unusable/nonfunctioning aerosol cans to clean up storage trailer. Paint cans in trash were all empty and dried.
Does not generate any hazardous waste as part of routine operations.

Facility is within Ora Loma Sanitary District jurisdiction for pretreatment and solid waste services.

see storm water report also.

Water:	Utility	Industrial Waste Discharged:	N/A
Water Metering:	Water	Hazardous Materials:	Yes
Sample Site:	N/A	If Other (Specify):	

Alameda Countywide Clean Water Program
Standard Stormwater Facility Inspection Form

Municipality: San Leandro
Date: 9/18/15
Inspector: Camp
Facility has closed or info has changed ☐

Facility Name and adress: Zermeno's Custom Ironworks 14143 Washington Av Unit A San Leandro, CA 94578	**Contact:** Alvaro "Al" Zermeno **Insp. Type:** First Inspection **Phone:** 510-614-2900 **Business Type:** Mfg Architectural metal work, install **SIC Code:** 3446

Other Applicable Programs:

☐ Air Quality ☒ HMBP ☐ UST ☐ Sanitary Sewer ☐ Retail Food Facility
☒ Fire Dept. ☐ Haz Waste Generator ☐ AST ☐ Others _____

Is the facility covered under a storm water permit?

☒ Does not need coverage ☐ Individual
☐ No, but may need to be (Refer to Regional Board) ☐ General

Facility has an SWPPP: ☐ Yes ☒ No

N/A = Not Applicable (blank = N/A, checked = A), PTNTL = Potential for Pollutant Discharge; 1 = low; 2 = medium; 3 = high; 9 = unknown; ACTUAL Discharge Type: BMP: 0 = Effective; 1 = fairly/almost effective; 2 = not effective; 3 = no BMPs impemented; 9 = unknown; PEX = Pollutant Exposure, NSW = Non-Stormwater Discharge

AREAS OF ACTIVITY	N/A	PTNL	Actual BMP	Actual PEX	Actual NSW	Remarks	Required Corrective Action
A. Outdoor Processes/Manufacturing Areas	☒			☐	☐		☐
B. Outdoor Material Storage Areas	☐	1	0	☐	☐	some larger metal storage, most kept in storage containers. few pallets	☐
C. Outdoor Waste Storage/Disp. Areas	☐	1	0	☐	☐	Trash drop box lids closed, no spillage around box	☐
D. Outdoor Veh/Hvy. Eq. Storage, Maint.	☒			☐	☐		☐
E. Outdoor Parking Area Access & Roads	☐	1	0	☐	☐	Entrance drive and parking areas clean, free of trash or debris.	☐
F. Outdoor Wash Areas	☒			☐	☐		☐
G. Rooftop Equipment Areas	☒			☐	☐		☐
H. Outdoor Drainage from Indoor Areas	☒			☐	☐		☐
I. Other (Describe	☒			☐	☐		☐

Additional Comments/Remarks: **Maintenance required in Storm Drain System?** ☐ Yes ☒ No

Facility is un-paved except for entrance. Gravel base in driving areas, some paver stones also. Metal working, cutting welding, stamping, etc. are all in indoor areas. BMPs including sweeping and magnetic metals recovery in place.

Reinspection Priority ☐ First ☐ Second ☒ Third

Enforcement: ☐ Informal Violation ☐ Administrative Action ☐ Verbal Notice ☐ Formal Violation ☐ Administrative Penalty ☐ Warning Notice ☐ Legal Action

BMP Brochures Dist
BMP Brochures Desc:

City of San Leandro
835 East 14th Street
San Leandro, CA 94577

INSPECTION REPORT

Environmental Services Section
Phone: (510) 577-3401
Fax: (510) 577-6019

Facility Name ZERMENO'S CUSTOM IRONWORKS	Facility Address 14143 WASHINGTON AVE
Facility Contact/Signature AP ZERMENO, OWNER	Consent given ☑ Phone Number 510-614-2900
Inspector John CAMP	Date of Inspection 9/18/15

Description of Violation	Description of Violation
1. Hazardous Materials Reporting	___ g. Provide ___ extinguisher(s) with a min. rating of _____
___ a. Submit a Hazardous Materials Business Plan (HMBP)	___ h. Service fire extinguishers (annual service required)
___ b. Revise existing HMBP: _____	___ i. Post "No Smoking" signs
___ c. Submit a SQ Hazardous Materials and Waste Registration	**5. Hazardous Waste Requirements**
___ d. Submit a CUPA Programs Registration	___ a. Obtain an EPA ID number for your facility
___ e. Submit permit/registration fees of $ _____	___ b. File an On-site Hazardous Waste Treatment Notification
___ f. Submit Material Safety Data Sheets (MSDS)	___ c. Discontinue illegal treatment/recycling
2. Storage Requirements	___ d. HW transporter and TSDF must have EPA ID number
___ a. Relocate hazardous materials/waste storage area	___ e. Determine if _____ is hazardous waste
___ b. Separate incompatible materials by 20 feet/noncombustible partition/separate storage cabinets	___ f. Properly label hazardous waste containers
___ c. Provide secondary containment for _____	___ g. Hazardous waste must be disposed of within _____ days of the accumulation start date
___ d. Properly label/store/recycle empty containers	___ h. Inspect container storage area weekly
___ e. Provide approved flammable liquids storage cabinet	___ i. Inspect tank system and surrounding area daily
___ f. Store unused chemicals in approved storage cabinets	___ j. Contaminated rags must be sent to an approved laundry
___ g. Properly secure compressed gas cylinders	___ k. Properly label and manage used oil filters
___ h. Reduce volume of regulated materials in storage area	___ l. Properly label and manage damaged batteries
___ i. Secure hazardous materials/waste storage area	___ m. CESQG may transport hazardous waste to HHW facility
___ j. Store contaminated rags in approved container with lid	**6. Emergency Response Plan and Procedures**
___ k. Containers in poor condition/transfer contents	___ a. Prepare/revise emergency response plan/contingency plan
___ l. Hazardous material/waste incompatible with container	___ b. Emergency Coordinator must be familiar with plan
___ m. Maintain _____ ft. clearance from combustibles	___ c. Post emergency call list by phone (SQG/CESQG)
___ n. Label tanks with chemical name and hazards	**7. Recordkeeping and Reporting**
3. Dispensing, Use and Mixing Requirements	___ a. Inadequate hazardous waste manifesting procedures
___ a. Provide approved dispensing system	___ b. Retain hazardous waste manifests for 3 years
___ b. Provide bonding and grounding for containers	___ c. Retain Land Disposal Restriction certificates for 3 years
___ c. Relocate dispensing, mixing area	___ d. Retain hazardous waste analyses for 3 years
___ d. Containers must be closed or sealed except during transfer	___ e. Retain milkrun receipts for 3 years
4. General Facility Requirements	___ f. Retain training records for 3 years
___ a. Clean secondary containment/maintain in dry state	___ g. Submit SB14 reports to DTSC (LQGs)
___ b. Discontinue discharge of hazardous materials/wastes	___ h. Submit biennial recyclable materials report (LQGs/SQGs)
___ c. Provide/maintain spill control supplies	**8. Personnel Training**
___ d. Maintain adequate aisle space in _____	___ a. Provide emergency response training annually
___ e. Clean up spills and leaks immediately	___ b. Train new employees within 6 months of hire
☒ f. Post NFPA 704 (diamond) placards at required locations	___ c. Maintain adequate training documentation on-site

Comments: _____

All minor violations listed above must be corrected within 30 days. Within 5 days of correcting all violations, sign below and return a signed copy to this office. Additional comments or other violations are listed in the attached inspection reports. The facility is subject to re-inspection at any time.

I have corrected all of the minor violations noted above.

Signature Date Printed Name

Code References for Listed Violations

Violation	Code Section
1.	
a.	19 CCR 2729
b.	19 CCR 2729
c.	27 CCR 15190
d.	27 CCR 15190
e.	27 CCR 15210
f.	19 CCR 2729
2.	
a.	22 CCR 66265.176 CFC 5704.4.2
b.	22 CCR 66265.177 CFC 5003.9.8
c.	22 CCR 66265.193 CFC 5004.2
d.	22 CCR 66261.7 CFC 5704.3.3.4
e.	CFC 5704.3.2
f.	CFC 5704.3.4.4
g.	CFC 5303.5.3
h.	CFC 5704/5705/5001
i.	CFC 5003.9.2
j.	CFC 304.3.1
k.	22 CCR 66265.171
l.	22 CCR 66265.172
m.	CFC 5704.2.6/3104.11
n.	CFC 5003.5/5703.5
3.	
a.	CFC 5705.2/5005.1
b.	CFC 5705.3.2
c.	CFC 5705.3.8.2/5004
d.	22 CCR 66265.173
4.	
a.	22 CCR 66265.196 CFC 5003.3
b.	H&S Code 25189.5 22 CCR 66265.196 CFC 5003.3
c.	22 CCR 66265.32
d.	22 CCR 66265.35
e.	22 CCR 66265.56
f.	CFC 5003.5
g.	22 CCR 66265.32 CFC 906.1
h.	22 CCR 66265.33 CFC 904.11.5
i.	CFC 3404.2.3.1/2703.7.1
5.	
a.	22 CCR 66262.12(a)
b.	H&S Code 25201.4.1
c.	H&S Code 25201(a)
d.	22 CCR 66262.12(c)
e.	22 CCR 66262.11
f.	22 CCR 66262.34
g.	22 CCR 66262.34 H&S Code 25123.3
h.	22 CCR 66265.174
i.	22 CCR 66265.195
j.	H&S Code 25144.6
k.	22 CCR 66266.130
l.	22 CCR 66266.81
m.	H&S Code 25218
6.	
a.	22 CCR 66265.53 & .54 19 CCR 2731
b.	22 CCR 66265.55
c.	22 CCR 66262.34(d)(2)
7.	
a.	22 CCR 66262.20-23 &42
b.	22 CCR 66262.40
c.	22 CCR 66268.7(a)(8)
d.	22 CCR 66262.40
e.	22 CCR 66263.42(e)
f.	22 CCR 66265.16
g.	H&S Code 25244.19
h.	H&S Code 25143.10
8.	
a.	22 CCR 66265.16 H&S Code 25504
b.	22 CCR 66265.16 H&S Code 25504
c.	22 CCR 66265.16

19 CCR 2729 - Title 19 California Code of Regulations Section 2729
2013 California Fire Code Section
H&S Code 25189.5 - California Health & Safety Code Section 25189.5

City of San Leandro
Environmental Services Division
835 East 14th Street, San Leandro, CA 94577
(510) 577-3401

Facility Name: Zermeno's Custom Ironworks
Address: 14143 Washington
Manager: Alvaro "Al" Zermeno
Person Contacted: same
Phone: 510-614-2900
SIC Code(s): _____ _____ _____
No. of Employees: _____

EBMUD Account #	Account type	Average Monthly Usage

Spec Bldg: ○ Yes ◉ No

Haz Mat: HMBP

Haz Waste: N/A

Referal:

Storm Water: ○ NOI ○ Refer to Regional Board ◉ Not Required

Industry Type:
☒ Offices ☐ Restaurant
☐ Warehousing ☒ Manufacturing
☒ Services ☐ Construction
☐ Government ☐ Retail

Other: _____

Describe if manufacturing or service: Create custom wrought iron fences / fixtures and installation

The facility is equipped with:
☐ Sewer monitoring structure(s)
☐ On site sewer manhole
☐ Off site sewer manhole
☒ None or not ascertainable

Remarks:
Steel & Iron stock stored inside secured containers. Office and collection of several small shop buildings behind SFR. Un-sprinklered. Small propane gas filed forge box in stand open on both ends to allow heating sections of longer stock for twisting or shaping. Cutting torch and one of two welders in use. Gas storage exceeds 200 CF HMBP registration quantitiee; includes propane, acetylene, oxygen, carbon dioxide, argon and argon/carbon dioxide mix. Made a quick inventory and set appointment to meet with Alejandra "Alex" next Friday to do CERS training and assist with initial CERS setup/data entry.
No records on HWTS. Does not generate any hazardous waste as part of normal operations.

Does the facility discharge any material (including cooling water) to municipal sewer system other than domestic sanitary wastes? If yes, describe under remarks. ○ Yes ◉ No

Is the facility equipped with sanitary sewer inlets other than normal sanitary facilities (such as floor drains, tank overflows, process waste streams, sumps, etc.)? ○ Yes ◉ No

Date: 5/22/15 **Time:** 13:30

Reported By: Camp

Follow Up: ◉ Yes ○ No

[redacted] City of San Leandro
Environmental Services Sectio[redacted]
Hazardous Materials and Waste (CUPA) Registration

March 1, 2019 - February 28, 2020

Facility: Zermenos Custom Ironworks
Address: 14143 Washington Av Unit A

Customer #: 27226
Fees Paid: $418.00
Date Paid: 6/19/19

You are currently registered for the following CUPA programs:

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	1
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	1
Flammable Gas	1	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		
Hazardous Waste Generator Class			N/A
Number of Underground Storage Tanks			0
On-Site Hazardous Waste Treatment Registration			No
Accidental Release Program Facility Registration			No
Above Ground Petroleum Storage Tank Program Registration			

CESQG: (Conditionally Exempt Small Quantity Generator) - generates less than 100 kilograms (27 gallons or 220 pounds) of hazardous waste per month.
SQG: (Small Quantity Generator) - generates more than 100 kilograms (27 gallons or 220 pounds), but less than 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.
LQG: (Large Quantity Generator) - generates more than or equal to 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

PBR: Permit by Rule **CA**: Conditionally Authorized **CE**: Conditionally Exempt

Quantity Range 1: Less than 500 lbs, 55 gal, or 2,000 cubic feet at STP
Quantity Range 2: 500 lbs, 55 gal, or 2,000 cu ft @ STP to 5,000 lbs, 550 gallons, or 20,000 cu ft @ STP
Quantity Range 3: 5,000 lbs, 550 gal, or 20,000 cu ft @ STP to 50,000 lbs, 5,500 gal, or 200,000 cu ft @ STP
Quantity Range 4: 50,000 lbs, 5,500 gal, or 200,000 cu ft @STP to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft@ STP
Quantity Range 5: Greater than or equal to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft @ STP

Mailed to:
Zermeno's Custom Ironworks
Attn: Alejandra Zermeno, Owner
14143 Washington Ave, Unit A
San Leandro, CA 94578

[redacted]

California Environmental Reporting System (CERS) — **Business Owner Operator**

Facility/Site
Zermenos Custom Ironworks
14143 Washington Ave Unit A
San Leandro, CA 94578
CERS ID: 10630429

Submittal Status
Submitted on 5/23/2015 by Alvaro Zermeo of Zermenos Custom Ironworks (San Leandro, CA)

Identification
Alvaro Zermeno
Operator Phone: (510) 614-2900
Business Phone: (510) 614-2900
Business Fax: (510) 614-2940
Beginning Date: 5/23/2015
Ending Date:
Dun & Bradstreet:
SIC Code: 3446
Primary NAICS:

Facility/Site Mailing Address
14143 Washington Ave, Unit A
San Leandro, CA 94578

Primary Emergency Contact
Alvaro Zermeno
Title: Owner
Business Phone: (510) 614-2900
24 Hour Phone: (510) 377-8323
Pager Number:

Owner
Alvaro Zermeno
(510) 614-2900
14143 Washington Ave Unit A
San Leandro, CA 94578

Secondary Emergency Contact
Alejandra Zermeno
Title: Owner
Business Phone: (510) 614-2900
24 Hour Phone: (510) 377-8316
Pager Number:

Billing Contact
Alejandra Zermeno
(510) 614-2900 alzermeno@sbcglobal.net
14143 Washington Ave Unit A
San Leandro, CA 94578

Environmental Contact
Alvaro Zermeno
(510) 614-2900 alzermeno@sbcglobal.net
14143 Washington Ave Unit A
San Leandro, CA 94578

Name of Signer: Alvaro Zermeo
Signer Title: Owner
Document Preparer: Alvaro Zermeo
Additional Information:

Locally-collected Fields
Some or all of the following fields may be required by your local regulator(s).

Property Owner
Phone:
Mailing Address:

Assessor Parcel Number (APN):
Number of Employees: 5
Facility ID: 01-007-101381

Printed on 5/23/2015 2:46 PM

14143 Washington
Zermenos Custom Ironworks

[redacted] [redacted]

ALAMEDA COUNTY FIRE DEPARTMENT
Fire Prevention Bureau

[ ] Dublin Division
100 Civic Plaza
Dublin, CA 94568
(925) 833-6606

[ ] San Leandro Division
835 East 14th Street, Suite 200
San Leandro, CA 94577
(510) 618-3490

[ ] Unincorporated County Division
22341 Redwood Road
Castro Valley, CA 94546
(510) 670-5853

Review/Inspection Comments

Inspector: Phil Constantino Date: 7/21/05 F.D. Permit #: _____

Address: 14273 Washington - United Rentals

Item #	Comments	Date Corrected	Checked By
	Complaint RE: Fire Extinguishers out of date – complaint invalid		
1	Post No Smoking Signs on portable containers housing gas operated power equipment	8/3/05	phil
2	Remove Fire Extinguishers in shop that are past due (NOTE: Occupancy has adequate number of fire extinguishers) There are extra.	8/3/05	phil
3	Provide venting in port containers housing gasoline equipment	8/3/05	phil
	See Jeff Sanders		

You are hereby notified to correct the violations immediately and contact the Inspector by 14 day **for reinspection. Failure to correct violation may result in issuance of a citation.**

Received By: _____ Date: _____

Contact Person: Ernie Lopez Phone #: 510 357-5900 Pager #: 385-6746

11/19/99

Page _____ of _____

May 23, 2001

ALAMEDA COUNTY FIRE DEPARTMENT
City of San Leandro Fire Prevention Division
835 E-14th St., San Leandro, CA 94577
(510) 577-3490

PLAN REVIEW COMMENTS

The proposed pad is approved with no conditions.

14273 WASHINGTON AVENUE

Tenant Improvement – Concrete Pad
BLD2001-00718

May 23, 2001

ALAMEDA COUNTY FIRE DEPARTMENT
City of San Leandro Fire Prevention Division
835 E-14th St., San Leandro, CA 94577
(510) 577-3490

PLAN REVIEW COMMENTS

The proposed pad is approved with no conditions.

14273 WASHINGTON AVENUE

Tenant Improvement – Concrete Pad
BLD2001-00718

Captain: SKAGGS **Station/Platoon:** 12/C

Inspection Information

Company Name	UNITED RENTALS
Address	14273 WASHINGTON
Telephone	357-5900
Contact Person	SAM AWABEY 714 4277 cell

Site Information

Type of Occupancy: Rental Yard

Site Description: ☐ Tenant Space ☐ Single Building ☐ Multi-building

☐	**Sprinklers**	**Title 19 Service Date:**	
☐	**Standpipe**	**Title 19 Service Date:**	
☐	**Hydrants**	**Service Date:**	
☐	**Lock Box**	**Box Type:**	
N/A	**Fire Alarm**	**Types of Alarm:**	☐ Water flow ☐ Evacuation ✓ Automatic Detection

Associated Addresses:

Inspection Information

	Date	Hours
Initial Inspection:	10/19/00	.25
First Re-inspection:		
Second Re-inspection:		
Completion Date:		
Total Inspection Hours:		.25

Inspector's Comment on Back

FPCI-4/83.022 (7/99)

ALAMEDA COUNTY FIRE DEPARTMENT
FIRE SAFETY INSPECTION REPORT

☐ Dublin ☑ San Leandro ☐ Unincorporated Alameda County

BUSINESS LICENSE ☑YES ☐NO

OCCUPANCY NAME: UNITED RENTALS	ADDRESS: 14273 WASHINGTON	PHONE: 357-5900
BUSINESS NAME:	ADDRESS:	PHONE:
EMERGENCY CONTACT: SAM AWABEY	ADDRESS: UNKNOWN	PHONE: 714-4277 cell

1997 UFC #	NATURE OF VIOLATION	REMARKS
	1. ELECTRICAL:	
8506.1	____a. Discontinue use of unapproved extension cords in lieu of permanent wiring.	
8506.3	____b. Remove extension cords run through openings or attached in series.	
8506.3	____c. Remove extension cords placed under rugs, furniture, or where subject to damage.	
8504	____d. Maintain wiring in good condition and protect from damage.	
8509	____e. Maintain access to electrical rooms and control panels.	
	2. EXITS:	
1207.4	____a. Maintain panic hardware & remove any other locking device on these doors.	
1203	____b. Remove obstructions from exits, aisles, corridors, and stairways.	
1207.3	____c. Exit doors shall be openable from the inside without the use of a key, special knowledge or effort.	
1211.1	____d. Provide lighting for corridors, stairways, and exterior exitways.	
1212	____e. EXIT signs. ____ Install ____ Repair	
1112.2	____f. Remove obstruction(s) and alterations from fire doors.	
	3. FIRE EXTINGUISHERS:	
1002	____a. Provide ____ extinguisher(s) of a _____ minimum rating.	
1002	____b. Mount extinguishers where readily available, with top not higher than 5 feet.	
1002	____c. Post signs indicating location where extinguishers are not readily visible.	
1002	____d. Service and tag (by State Licensee) each extinguisher annually or after use.	
	4. FIRE PROTECTION SYSTEMS:	
1001.7	____a. Maintain access to, and operation of standpipes, fire hose, and sprinkler FDC and control valves.	
1003.2.9	____b. Provide approved central alarm station monitoring of all control valves and flow devices.	
1001.4	____c. Test waterflow & tamper alarms quarterly and maintain records.	
1003.1.1	____d. Inspect sprinkler system quarterly and maintain records.	
1003.1.1	____e. Provide 5 year certification for sprinkler/standpipe system. Attach tag to riser and send copy of certification to Fire Department offices.	O/C
1003.1.1	____f. Identify sprinkler valves and secure in an open position.	NO
1003.1.1	____g. Provide spare sprinklers (6 minimum) and sprinkler wrench in box.	
1003.1.1	____h. Replace damaged, corroded or painted sprinkler heads.	VIOLATIONS
1003.1.1	____i. Remove decorations or other attachments from sprinkler system components.	
1003.1.1	____j. Provide sprinkler coverage to all areas throughout the premises.	
1001.5.1	____k. Inspect and service hood and duct extinguishing system over cooking equipment semi-annually and after use.	
	5. FIRE ALARM SYSTEMS	
1001.4	____a. Maintain fire alarm system in operable condition, test monthly and maintain records.	
	6. FLAMMABLE LIQUIDS	
7902.5.8	____a. Class I, II, & III-A liquids in excess of exempt amounts shall be stored in approved storage cabinets or room.	
7902.1.8.1	____b. Remove flammable liquids not stored in original container or approved safety containers.	

City of San Leandro
Civic Center, 835 E. 14th Street
San Leandro, California 94577

June 16, 1997

PAID
JUN 24 1997
#300.00 8936

Mr. Victor Baldi
San Leandro Equipment Rental Service, Inc.
14273 Washington Avenue
San Leandro, CA 94578

SAN LEANDRO RENTAL Incorporated
14273 WASHINGTON AVE. • SAN LEANDRO, CA 94578-3594
TEL (510) 357-5900 • FAX (510) 357-7402

008936

06/24/97

INVOICE NO.	DATE	PURCHASE ORDER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
REGIONAL WAT	6/16/97		300.00		300.00

SAN LEANDRO Since 1955 RENTAL Incorporated

JUL 11 1997
FIRE DEPARTMENT

VENDOR:169500 CHECK 8936 TOTALS: 300.00 300.00

Sincerely,

LUST oversight
#3316

Michael Bakaldin
Hazardous Materials Coordinator

72401

Ellen M. Corbett, Mayor

City Council:
Joanne M. Lothrop; Gordon A. Galvan; Julian P. Polvorosa; Bob Glaze; Shelia Young; Garry A. Loeffler;

City of San Leandro
Civic Center, 835 E. 14th Street
San Leandro, California 94577

June 16, 1997

PAID
JUN 24 1997
#300.00 8226

Mr. Victor Baldi
San Leandro Equipment Rental Service, Inc.
14273 Washington Avenue
San Leandro, CA 94578

Request for Reimbursement

Attached is a request to the Regional Water Quality Control Board to close your leaking underground storage tank case. The Regional Board should be sending you a case closure letter in the near future. No further work will be required in regard to your former tanks.

Upon closing out your file I noticed that we had not received a deposit to cover the City's oversight costs. Money is normally drawn from the deposit for actual time spent reviewing your consultant's reports, overseeing field activities, and preparing the closure recommendation. During the course of this project my staff incurred costs of $300.00.

It has always been my policy to not delay projects over permit fees and charges, to minimize oversight costs, and to minimize the bureaucratic side of the oversight process. I hope that you found our services timely and reasonable.

Please send a check for $300 to this office as soon as possible made payable to the City of San Leandro. If you have any questions, please call me at (510) 577-3331.

Sincerely,

LUST oversight
#3316

Michael Bakaldin
Hazardous Materials Coordinator

72401

Ellen M. Corbett, Mayor

City Council:
Joanne M. Lothrop; Gordon A. Galvan; Julian P. Polvorosa; Bob Glaze; Shelia Young; Garry A. Loeffler;

SLFD FORM FPCI-4
(Rev. 9/92)

SAN LEANDRO FIRE DEPARTMENT
FIRE SAFETY INSPECTION REPORT
835 E-14th STREET

CITY BUSINESS LICENSE
YES [ ] NO [ ]

OCCUPANCY NAME	ADDRESS	PHONE
San Leandro Rental	14273 Washington	357-5900
BUSINESS OWNER	ADDRESS	PHONE
EMERGENCY CONTACT	ADDRESS	PHONE
Victor Baldi	6241 Mount Olympus Castro Valley	581-0694

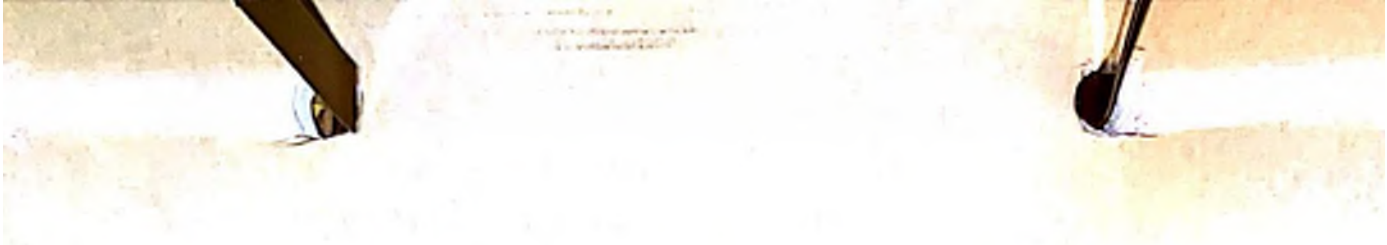
SLUFC #		NATURE OF VIOLATION	REMARKS
		1. ELECTRICAL:	
85.106a	___ a.	Discontinue use of extension cords in lieu of permanent wiring.	Please repair emergency shutoff switch for Gas + Diesel tanks.
85.106c	___ b.	Remove extension cords run through openings or attached in series.	
85.106c	___ c.	Remove extension cords placed under rugs, furniture, or where subject to damage.	
85.104	___ d.	Maintain wiring in good condition and protect from damage.	
		2. EXITS:	
12.106d	___ a.	Remove all other locks or latches from doors with panic hardware. Done 10-12-94	
12.104	___ b.	Remove obstruction from exits, aisles, corridors, and stairways.	
12.106c	___ c.	Unlock all exit doors during business hours.	
12.110	___ d.	Provide lighting for corridors, stairways, and exterior exitways.	
12.111	___ e.	EXIT signs. ___ Install ___ Repair	
10.602	___ f.	Remove obstruction(s) and alterations from fire doors.	
		3. FIRE EXTINGUISHERS:	
10.505	___ a.	Provide ___ extinguisher(s) of a _____ minimum rating. 3D.	Service and tag extinguishers as needed.
10.505	___ b.	Mount extinguishers where readily available, with top not higher than 5 feet.	
10.505	___ c.	Post signs indicating location where extinguishers are not readily visible. Done 10-12-94	
10.505	X d.	Service and tag (by State Licensee) each extinguisher annually or after use.	
		4. FIRE PROTECTION INSTALLATIONS:	
10.105	___ a.	Maintain access to, and operation of standpipes, fire hose, and sprinkler FDC and control valves.	
10.507.1	___ b.	Provide approved central alarm station monitoring of all control valves and flow devices.	Please secure propane tanks with chains.
14.108	___ c.	Test waterflow & tamper alarms bi-monthly and maintain records. Done 10-12-94	
10.504	___ d.	Inspect sprinkler system quarterly and maintain records.	
10.504	___ e.	Provide 5 year certification for sprinkler/standpipe system. Attach tag to riser and send copy of certification to Fire Department offices.	
10.504	___ f.	Identify sprinkler valves and secure in an open position.	
10.504	___ g.	Provide spare sprinklers (6 minimum) and sprinkler wrench in box.	
10.504	___ h.	Replaced damaged, corroded or painted sprinkler heads.	
10.504	___ i.	Remove decorations or other attachments from sprinkler system components.	
10.504	___ j.	Provide sprinkler coverage to all areas throughout the premises.	
10.513e	___ k.	Inspect and service hood and duct extinguishing system over cooking equipment semi-annually and after use. Done 10-12-94	Discontinue use of extension cord in lieu of permanent wiring in small engine shop.
		5. FIRE ALARM SYSTEMS	
14.108	___ a.	Maintain fire alarm system in operable condition, test monthly and maintain records.	
		6. FLAMMABLE LIQUIDS	
79.202	___ a.	Class I, II, & III-A liquids in excess of exempt amounts shall be stored in approved storage cabinets or room.	
79.105	___ b.	Remove flammable liquids not stored in original container or approved safety containers.	
79.202a	___ c.	Remove flammable liquids not used for maintenance in assembly building, offices, apartments and motels.	
79.201d	___ d.	Remove all flammable liquids that are stored near exits, stairways, & exit corridors.	
79.802	___ e.	Inside dispensing of Class I & II liquids shall not exceed exempt amounts outside of approved mixing & handling room.	
79.802	___ f.	Inside dispensing of Class III liquids in excess of 80 gallons is prohibited outside of approved mixing and handling room. Done 10-12-94	Halon extinguisher in computer room needs service.
79.802c	___ g.	Discontinue gravity dispensing from containers exceeding 5 gallons or provide approved pump taking suction from the top.	
79.802e	___ h.	Provide static electrical bonding and grounding for all dispensing operations.	
79.113	___ i.	Discontinue the discharge of flammable and combustible liquids into drains or on the ground.	
		7. HEAT PRODUCING APPLIANCES	
11.303b	___ a.	Remove combustible storage from heater, electrical or mechanical rooms.	
11.404	___ b.	Provide 30 inch clearance between heat producing appliance and combustible materials.	
		8. HOUSEKEEPING (INTERIOR)	
11.302	___ a.	Remove all combustible waste material or store such materials to ensure that they do not create a fire hazard.	
10.513e	___ b.	Clean grease filters and hood & duct systems over cooking appliances.	
		9. RUBBISH (OUTSIDE ACCUMULATION)	
11.302	___ a.	Remove rubbish, weeds, litter, etc., OR store in noncombustible containers.	
		10. SMOKING AND OPEN FLAMES	
11.502	___ a.	Post and enforce "NO SMOKING" signs: _____	
11.502	___ b.	Provide ash trays, sand receptacles, butt cans, etc. where smoking is allowed.	
		11. STORAGE	
12.104	___ a.	Remove storage from exits, aisles, corridors and on or under stairways.	
11.303	___ b.	Arrange storage in an orderly manner and provide for exiting and Fire Department access.	
11.303b	___ c.	Remove storage to 18 inches below level of sprinklers.	
11.303b	___ d.	Reduce storage height to at least 2 feet below ceiling.	
74.107	___ e.	Secure and identify all compressed gas cylinders.	
10.601	___ f.	Keep attic access and scuttle openings closed at all times.	
		12. PERMITS REQUIRED	
4.108	___	_____	
	___	_____	

Complete 10-12-94

ADDITIONAL COMMENTS AND/OR REQUIREMENTS

COMPANY OFFICER	PLATOON	DISTRICT	PHONE	DATE OF INITIAL INSPECTION
A/C Robert Pagano	B	4	577-3308	9-19-94

YOU ARE HEREBY NOTIFIED TO CORRECT THE ABOVE CONDITIONS WITHIN 20 DAYS.



14273 Washington Avenue

04.01.77: 1837 hrs. 929 electrical short in tractor.
Estimated fire damage: $50.00

SLFD FORM FPC1-4

SAN LEANDRO FIRE DEPARTMENT
FIRE SAFETY INSPECTION REPORT
835 E-14th STREET

CITY BUSSINESS LICENCE
YES [X] NO [ ]

OCCUPANCY NAME: SAN LEANDRO RENTAL	ADDRESS: 14273 WASHINGTON	PHONE: 357-5900
BUSINESS OWNER	ADDRESS	PHONE
EMERGENCY CONTACT: VICTOR BALDI	ADDRESS	PHONE: 581-0338

SLUFC #	NATURE OF VIOLATION	REMARKS
	1. ELECTRICAL:	
85.106a	___a. Discontinue use of extension cords in lieu of permanent wiring.	
85.106c	___b. Remove extension cords run through openings or attached in series.	
85.106c	___c. Remove extension cords placed under rugs, furniture, or where subject to damage.	
85.104	X d. Maintain wiring in good condition and protect from damage.	OK 11-11-92
	2. EXITS:	
12.104b	___a. Remove all other locks or latches from doors with panic hardware.	
12.103a	___b. Remove obstruction from exits, aisles, corridors, and stairways.	
12.104b	___c. Unlock all exit doors during business hours.	
12.107	___d. Provide lighting for corridors, stairways, and exterior exitways.	
12.108	___e. EXIT signs. ___ Install ___ Repair	
10.402	___f. Remove obstruction(s) and alterations from fire doors.	
	3. FIRE EXTINGUISHERS:	
10.301	___a. Provide ___ extinguisher(s) of a _____ minimum rating.	
10.301	___b. Mount extinguishers where readily available, with top not higher than 5 feet.	
10.301	___c. Post signs indicating location where extinguishers are not readily visible.	
10.302	___d. Service and tag (by State Licensee) each extinguisher annually or after use.	
	4. FIRE PROTECTION INSTALLATIONS:	
10.302	___a. Maintain access to, and operation of standpipe, fire hose, and sprinkler FDC and control valves.	
10.306.1	___b. Provide approved central alarm station monitoring of all control valves and flow devices.	
10.302	___c. Test waterflow & tamper alarms bi-monthly and maintain records.	
10.302	___d. Inspect sprinkler system quarterly and maintain records.	
10.302	___e. Provide 5 year certification for sprinkler/standpipe system. Attach tag to riser and send copy of certification to Fire Department offices.	
10.302	___f. Identify sprinkler valves and secure in an open position.	
10.302	___g. Provide spare sprinklers (6 minimum) and sprinkler wrench in box.	
10.302	___h. Replaced damaged, corroded or painted sprinkler heads.	
10.302	___i. Remove decorations or other attachments from sprinkler system components.	
10.302	___j. Provide sprinkler coverage to all areas throughout the premises.	
10.313c	___k. Inspect and service hood and duct extinguishing system over cooking equipment semi-annually and after use.	
	5. FIRE ALARM SYSTEMS	
14.106a	___a. Maintain fire alarm system in operable condition, test monthly and maintain records.	
	6. FLAMMABLE LIQUIDS	
79.201	___a. Class I, II, & III-A liquids in excess of 10 Gallons shall be stored in approved storage cabinets.(Mercantile exempted-allowed 2 gal. per square ft)	
79.104	___b. Remove flammable liquids not stored in original container or approved safety containers.	
79.201e	___c. Remove flammable liquids not used for maintenance in assembly building, offices, apartments and motels.	
79.201d	___d. Remove all flammable liquids that are stored near exits, stairways, & exit corridors.	
79.802	___e. Inside dispensing of Class I & II liquids from approved containers in excess of 5 gallons(10 gal. total) is prohibited outside of approved mixing & handling room.	
79.802	___f. Inside dispensing of Class III liquids in excess of 60 gallons is prohibited outside of approved mixing and handling room.	
79.802b	___g. Discontinue gravity dispensing from containers exceeding 5 gallons or provide approved pump taking suction from the top.	
79.802d	___h. Provide static electrical bonding and grounding for all dispensing operations.	
79.802e	___i. Discontinue the discharge of flammable and combustible liquids into drains or on the ground.	
	7. HEAT PRODUCING APPLIANCES	
11.203c	___a. Remove combustible storage from heater, electrical or mechanical rooms.	
11.404d	___b. Provide clearance between heat producing appliance and combustible materials.	
	8. HOUSEKEEPING (INTERIOR)	
11.202	___a. Remove all combustible waste material or store such materials to ensure that they do not create a fire hazard.	
10.313c	___b. Clean grease filters and hood & duct systems over cooking appliances.	
	9. RUBBISH (OUTSIDE ACCUMULATION)	
11.201	___a. Remove rubbish, weeds, litter, etc., OR store in noncombustible containers.	
	10. SMOKING AND OPEN FLAMES	
13.101	___a. Post and enforce "NO SMOKING" signs: _____	
13.101	___b. Provide ash trays, sand receptacles, butt cans, etc. where smoking is allowed.	
	11. STORAGE	
12.103	___a. Remove storage from exits, aisles, corridors and on or under stairways.	
11.203	___b. Arrange storage in an orderly manner and provide for exiting and Fire Department access.	
10.302	___c. Remove storage to 18 inches below level of sprinklers.	
11.203b	___d. Reduce storage height to at least 2 feet below ceiling.	
74.507	___e. Secure and identify all compressed gas cylinders.	
11.406	___f. Keep attic access and scuttle openings closed at all times.	
	12. PERMITS REQUIRED	
4.108	___ _____	ID COVER PLATE MIDDLE SHOP AREA

ADDITIONAL COMMENTS AND/OR REQUIREMENTS

COMPANY OFFICER	PLATOON	DISTRICT	PHONE	DATE OF INITIAL INSPECTION
CENTONI	B	4	577-3308	9-25-92

YOU ARE HEREBY NOTIFIED TO CORRECT THE ABOVE CONDITIONS WITHIN 15 DAYS.

SLFD FORM FPC1-4

SAN LEANDRO FIRE DEPARTMENT
FIRE SAFETY INSPECTION REPORT
835 E-14th STREET

CITY BUSSINESS LICENCE YES [X] NO [ ]

OCCUPANCY NAME: SAN LEANDRO RENTAL	ADDRESS: 14273 WASHINGTON	PHONE: 357-5900
BUSINESS OWNER	ADDRESS	PHONE
EMERGENCY CONTACT: VICTOR BALDI	ADDRESS	PHONE: 581-0338

SLUFC #	NATURE OF VIOLATION	REMARKS
	1. ELECTRICAL:	
85.104a	____a. Discontinue use of extension cords in lieu of permanent wiring.	
85.104c	____b. Remove extension cords run through openings or attached in series.	
85.104c	____c. Remove extension cords placed under rugs, furniture, or where subject to damage.	
85.104	____d. Maintain wiring in good condition and protect from damage.	
	2. EXITS:	
12.104b	____a. Remove all other locks or latches from doors with panic hardware.	
12.103a	____b. Remove obstruction from exits, aisles, corridors, and stairways.	
12.104b	____c. Unlock all exit doors during business hours.	
12.107	____d. Provide lighting for corridors, stairways, and exterior exitways.	
12.108	____e. EXIT signs. _____ Install _____ Repair	
10.402	____f. Remove obstruction(s) and alterations from fire doors.	
	3. FIRE EXTINGUISHERS:	
10.301	____a. Provide _____ extinguisher(s) of a _____ minimum rating.	
10.301	____b. Mount extinguishers where readily available, with top not higher than 5 feet.	
10.301	____c. Post signs indicating location where extinguishers are not readily visible.	
10.302	____d. Service and tag (by State Licensee) each extinguisher annually or after use.	
	4. FIRE PROTECTION INSTALLATIONS:	
10.302	____a. Maintain access to, and operation of standpipes, fire hose, and sprinkler FDC and control valves.	
10.306.1	____b. Provide approved central alarm station monitoring of all control valves and flow devices.	
10.302	____c. Test waterflow & tamper alarms bi-monthly and maintain records.	
10.302	____d. Inspect sprinkler system quarterly and maintain records.	
10.302	____e. Provide 5 year certification for sprinkler/standpipe system. Attach tag to riser and send copy of certification to Fire Department offices.	
10.302	____f. Identify sprinkler valves and secure in an open position.	
10.302	____g. Provide spare sprinklers (6 minimum) and sprinkler wrench in box.	
10.302	____h. Replaced damaged, corroded or painted sprinkler heads.	
10.302	____i. Remove decorations or other attachments from sprinkler system components.	
10.302	____j. Provide sprinkler coverage to all areas throughout the premises.	
10.313e	____k. Inspect and service hood and duct extinguishing system over cooking equipment semi-annually and after use.	
	5. FIRE ALARM SYSTEMS	
14.104a	____a. Maintain fire alarm system in operable condition, test monthly and maintain records.	
	6. FLAMMABLE LIQUIDS	
79.201	____a. Class I, II, & III-A liquids in excess of 10 Gallons shall be stored in approved storage cabinets.(Mercantile exempted-allowed 2 gal. per square ft)	
79.104	____b. Remove flammable liquids not stored in original container or approved safety containers.	
79.201e	____c. Remove flammable liquids not used for maintenance in assembly building, offices, apartments and motels.	
79.201d	____d. Remove all flammable liquids that are stored near exits, stairways, & exit corridors.	NO Problems
79.802	____e. Inside dispensing of Class I & II liquids from approved containers in excess of 5 gallons(10 gal. total) is prohibited outside of approved mixing & handling room.	
79.802	____f. Inside dispensing of Class III liquids in excess of 60 gallons is prohibited outside of approved mixing and handling room.	
79.802f	____g. Discontinue gravity dispensing from containers exceeding 5 gallons or provide approved pump taking suction from the top.	
79.802d	____h. Provide static electrical bonding and grounding for all dispensing operations.	
79.802e	____i. Discontinue the discharge of flammable and combustible liquids into drains or on the ground.	
	7. HEAT PRODUCING APPLIANCES	
11.203c	____a. Remove combustible storage from heater, electrical or mechanical rooms.	
11.404d	____b. Provide clearance between heat producing appliance and combustible materials.	
	8. HOUSEKEEPING (INTERIOR)	
11.202	____a. Remove all combustible waste material or store such materials to ensure that they do not create a fire hazard.	
10.313e	____b. Clean grease filters and hood & duct systems over cooking appliances.	
	9. RUBBISH (OUTSIDE ACCUMULATION)	
11.201	____a. Remove rubbish, weeds, litter, etc., OR store in noncombustible containers.	
	10. SMOKING AND OPEN FLAMES	
13.101	____a. Post and enforce "NO SMOKING" signs: _____	
13.101	____b. Provide ash trays, sand receptacles, butt cans, etc. where smoking is allowed.	
	11. STORAGE	
12.103	____a. Remove storage from exits, aisles, corridors and on or under stairways.	
11.203	____b. Arrange storage in an orderly manner and provide for exiting and Fire Department access.	
10.302	____c. Remove storage to 18 inches below level of sprinklers.	
11.203b	____d. Reduce storage height to at least 2 feet below ceiling.	
74.107	____e. Secure and identify all compressed gas cylinders.	
11.406	____f. Keep attic access and scuttle openings closed at all times.	
	12. PERMITS REQUIRED	
4.108	____ _____	
	_____	

ADDITIONAL COMMENTS AND/OR REQUIREMENTS

COMPANY OFFICER	PLATOON	DISTRICT	PHONE	DATE OF INITIAL INSPECTION
CENTONI	B	4	577-3308	4-8-91

YOU ARE HEREBY NOTIFIED TO CORRECT THE ABOVE CONDITIONS WITHIN _____ DAYS.

FPC -4
3-20-85

CITY OF SAN LEANDRO
FIRE SAFETY INSPECTION REPORT

FIRE PREVENTION BUREAU — 835 E. 14th STREET — 577-3316

OCCUPANCY NAME	ADDRESS	PHONE
SAN LEANDRO RENTALS	1273 WASHINGTON	357-5900
BUSINESS OWNER	ADDRESS	PHONE
EMERGENCY CONTACT	ADDRESS	PHONE
VICTOR BALDI		581-0838

SLFC SECTION	NATURE OF VIOLATION	REMARKS
	1. ELECTRICAL:	
85.106a	____ a. Discontinue use of extension cords in lieu of permanent wiring.	
85.106c	____ b. Remove extension cords run through openings or attached in series.	
85.106c	____ c. Remove extension cords placed under rugs, furniture, or where subject to damage.	
85.104	✓ d. Maintain wiring in good condition and protect from damage.	4 SWITCH PLATES
	2. EXITS:	
T-19	____ a. Remove all other locks or latches from doors with panic hardware	1d. REPLACE COVER-PLATE IN PARTS ROOM.
12.103a	____ b. Remove obstructions from exits, aisles, corridors, and stairways.	
12.104b	____ c. Unlock all exit doors during business hours.	
12.113	____ d. Provide lighting for corridors, stairways, and exterior exitways.	
12.114a	____ e. Exit signs. ____ Install ____ Repair	
10.402	____ f. Remove obstruction(s) and alterations to fire doors.	
	3. FIRE EXTINGUISHERS:	
10.301	____ a. Provide ____ extinguisher(s) of a _____ minimum rating.	
10.301	✓ b. Mount extinguishers where readily available, with top not higher than 5 feet.	HANG EXT. AT SIGNS
10.301	____ c. Post signs indicating location where extinguishers are not readily visible.	3b. KEEP CLEAR ACCESS
T-19	✓ d. Service and tag (by State Licensee) each extinguisher annually and after use.	3d. COMPUTER ROOM
	4. FIRE PROTECTION INSTALLATIONS: Sprinkler System Yes ____ No ✓	
10.302	____ a. Maintain access to, and operation of standpipes, fire hose, and sprinkler valves.	
10.302	____ b. Inspect and test sprinkler system monthly and maintain records.	
10.302	____ c. Identify sprinkler valves and secure in open position.	
10.302	____ d. Provide spare sprinklers (6 minimum) and sprinkler wrench.	
10.315e	____ e. Inspect and service hood and duct extinguishing system over cooking equipment semi-annually and after use.	
10.302	____ f. Remove decorations or other attachments from sprinkler system.	
10.302	____ g. Replace damaged, corroded or painted sprinkler heads.	
	5. FIRE ALARM SYSTEMS	
10.307e	____ a. Maintain fire alarm system in operable condition and test monthly.	
	6. FLAMMABLE LIQUIDS	
79.201e	____ a. Reduce Class I (gasoline, etc.) to less than 5 gallons indoors, not in storage cabinets.	
79.201e	____ b. Reduce Class II, III (solvents, etc.) to less than 25 gallons indoors, not in storage cabinets.	
79.201e	____ c. Remove flammable liquids not used for maintenance in assembly buildings, offices, apartments and motels.	
79.201f	____ d. Remove flammable liquids not stored in original cans or approved safety containers.	
79.803d	____ e. Provide static electrical bonding and grounding for all dispensing operations.	
79.201d	____ f. Store flammable liquids *away* from corridors, main aisles, stairways, and exit areas.	
79.802e	____ g. Discontinue gravity dispensing from containers exceeding 5 gallons or provide pump taking suction from the top.	
79.802e	____ h. Discontinue the discharge of flammable and combustible liquids into drains or on the ground.	
	7. HEAT PRODUCING APPLIANCES:	
11.403c	____ a. Remove combustibles and storage from heater area or room.	
11.405	____ b. Provide clearance between heat producing appliances and combustible material.	
	8. HOUSEKEEPING (INTERIOR):	
11.202	____ a. Remove or store rubbish, waste material, and oily rags in closed metal containers.	
10.315f	____ b. Clean grease filters and hood duct systems over cooking appliances.	
76.103	____ c. Provide waste collecting receptacles at dust producing machines.	
	9. RUBBISH (OUTSIDE ACCUMULATION):	
11.202	____ a. Remove waste, trash, and weeds, OR store in closed metal or metal-lined containers.	
	10. SMOKING AND OPEN FLAMES:	
13.101	____ a. Post and enforce "NO SMOKING" signs: _____	
13.101	____ b. Provide ash trays, sand receptacles, or butt cans, where smoking is permitted.	
	11. STORAGE:	
12.103a	____ a. Remove storage from exits, aisles, corridors and on or under stairways.	
11.202	____ b. Arrange storage in orderly manner and provide for exiting and Fire Department access.	
NFPA 13	____ c. Remove storage to 18" below level of sprinklers (36" for storage piled over 12 feet high).	
11.203e	✓ d. Reduce storage height to at least 2 feet below ceiling.	11E. USE CHAIN
74.107	✓ e. Secure and identify compressed gas cylinders with name of product.	
11.408	____ f. Keep attic access and scuttle openings closed.	

ADDITIONAL COMMENTS AND/OR REQUIREMENTS

COMPANY OFFICER: J Lurchis

COMPANY: 7 — SHIFT: A

DATE OF FIRST INSP: 10-12-89

YOU ARE HEREBY NOTIFIED TO CORRECT THE ABOVE CONDITIONS WITHIN 15 DAYS.

CRC PD

FPC -4
3-20-85

CITY OF SAN LEANDRO
FIRE SAFETY INSPECTION REPORT

FIRE PREVENTION BUREAU — 835 E. 14th STREET — 577-3316

OCCUPANCY NAME	ADDRESS	PHONE
SAN LEANDRO RENTALS	1427 3 WASHINGTON AVE	351-5100
BUSINESS OWNER	**ADDRESS**	**PHONE**
EMERGENCY CONTACT	**ADDRESS**	**PHONE**
VICTOR BALDI		581-0338

SLFC SECTION	NATURE OF VIOLATION	REMARKS
	1. ELECTRICAL:	
85.106a	✓ a. Discontinue use of extension cords in lieu of permanent wiring.	1a. COKE & CANDY MACHINE
85.106c	___ b. Remove extension cords run through openings or attached in series.	GET POWER CUBE W/
85.106c	___ c. Remove extension cords placed under rugs, furniture, or where subject to damage.	CIRCUIT BREAKER,
85.104	✓ d. Maintain wiring in good condition and protect from damage.	
	2. EXITS:	
T-19	___ a. Remove all other locks or latches from doors with panic hardware	1a. COFFE MACHINE
12.103a	___ b. Remove obstructions from exits, aisles, corridors, and stairways.	
12.104b	___ c. Unlock all exit doors during business hours.	1a. TO COMPUTER PRINTER
12.113	___ d. Provide lighting for corridors, stairways, and exterior exitways.	
12.114a	___ e. Exit signs. ___ Install ___ Repair	1d. COVER PLATES NEEDED
10.402	___ f. Remove obstruction(s) and alterations to fire doors.	IN NEW OFFICE AREA
	3. FIRE EXTINGUISHERS:	& COMPUTER
10.301	___ a. Provide ___ extinguisher(s) of a _____ minimum rating.	
10.301	✓ b. Mount extinguishers where readily available, with top not higher than 5 feet.	
10.301	___ c. Post signs indicating location where extinguishers are not readily visible.	
T-19	✓ d. Service and tag (by State Licensee) each extinguisher annually and after use.	
	4. FIRE PROTECTION INSTALLATIONS: Sprinkler System Yes ___ No ___	3bd COMPUTER ROOM
10.302	___ a. Maintain access to, and operation of standpipes, fire hose, and sprinkler valves.	~~NEXT TO BATHROOM~~
10.302	___ b. Inspect and test sprinkler system monthly and maintain records.	SHOP - NEXT TO GREASE
10.302	___ c. Identify sprinkler valves and secure in open position.	GUN
10.302	___ d. Provide spare sprinklers (6 minimum) and sprinkler wrench.	
10.315e	___ e. Inspect and service hood and duct extinguishing system over cooking equipment semi-annually and after use.	
10.302	___ f. Remove decorations or other attachments from sprinkler system.	
10.302	___ g. Replace damaged, corroded or painted sprinkler heads.	
	5. FIRE ALARM SYSTEMS	
10.307a	___ a. Maintain fire alarm system in operable condition and test monthly.	
	6. FLAMMABLE LIQUIDS	
79.201e	___ a. Reduce Class 1 (gasoline, etc.) to less than 5 gallons indoors, not in storage cabinets.	
79.201e	___ b. Reduce Class II, III (solvents, etc.) to less than 25 gallons indoors, not in storage cabinets.	
79.201e	___ c. Remove flammable liquids not used for maintenance in assembly buildings, offices, apartments and motels.	
79.201f	___ d. Remove flammable liquids not stored in original cans or approved safety containers.	
79.803d	___ e. Provide static electrical bonding and grounding for all dispensing operations.	
79.201d	___ f. Store flammable liquids *away* from corridors, main aisles, stairways, and exit areas.	
79.802e	___ g. Discontinue gravity dispensing from containers exceeding 5 gallons or provide pump taking suction from the top.	
79.802e	___ h. Discontinue the discharge of flammable and combustible liquids into drains or on the ground.	7b. HOOK UP VENT PIPE
	7. HEAT PRODUCING APPLIANCES:	
11.403c	___ a. Remove combustibles and storage from heater area or room.	
11.405	✓ b. Provide clearance between heat producing appliances and combustible material.	
	8. HOUSEKEEPING (INTERIOR):	
11.202	___ a. Remove or store rubbish, waste material, and oily rags in closed metal containers.	
10.315f	___ b. Clean grease filters and hood duct systems over cooking appliances.	
76.103	___ c. Provide waste collecting receptacles at dust producing machines.	
	9. RUBBISH (OUTSIDE ACCUMULATION):	
11.202	___ a. Remove waste, trash, and weeds, OR store in closed metal or metal-lined containers.	
	10. SMOKING AND OPEN FLAMES:	
13.101	___ a. Post and enforce "NO SMOKING" signs: _____	
13.101	___ b. Provide ash trays, sand receptacles, or butt cans, where smoking is permitted.	
	11. STORAGE:	11f. MAIN AREA
12.103a	___ a. Remove storage from exits, aisles, corridors and on or under stairways.	11e. MAIN AREA
11.202	___ b. Arrange storage in orderly manner and provide for exiting and Fire Department access.	
NFPA 13	___ c. Remove storage to 18" below level of sprinklers (36" for storage piled over 12 feet high).	
11.203e	___ d. Reduce storage height to at least 2 feet below ceiling.	
74.107	✓ e. Secure and identify compressed gas cylinders with name of product.	
11.408	✓ f. Keep attic access and scuttle openings closed.	

ADDITIONAL COMMENTS AND/OR REQUIREMENTS

COMPANY OFFICER	COMPANY	SHIFT	YOU ARE HEREBY NOTIFIED TO CORRECT THE ABOVE CONDITIONS WITHIN 30 DAYS.
JOHNSTON	4	A	
	DATE OF FIRST INSP.	6-9-88	

CRC PM

Plan Check SAN LEANDRO FIRE DEPARTMENT July 15, 1987

SAN LEANDRO RENTAL
14273 Washington Ave.

Tenant Improvement

1. Additional fire extinguishers may be required. Contact the fire department prior to occupancy for location, number, and type of fire extinguishers to be installed.

2. Building, or any portion thereof, shall be provided with exits, eixt illumination and exit signs in accordance with Chapter 33 of the San Leandro Uniform Building Code.

Robert Lundstrom, Inspector
Fire Prevention Bureau

/mr

FPCI-4
3-20-85

CITY OF SAN LEANDRO
FIRE SAFETY INSPECTION REPORT

FIRE PREVENTION BUREAU

835 E. 14th STREET

577-3316

OCCUPANCY NAME	ADDRESS	PHONE
SAN LEANDRO RENTALS	14273 WASHINGTON AVE	357-5900
BUSINESS OWNER	**ADDRESS**	**PHONE**
EMERGENCY CONTACT	**ADDRESS**	**PHONE**
VICTOR BALDI		581-0338

SLFC SECTION	NATURE OF VIOLATION	REMARKS
	1. ELECTRICAL:	
85.106a	____ a. Discontinue use of extension cords in lieu of permanent wiring.	
85.106c	____ b. Remove extension cords run through openings or attached in series.	
85.106c	____ c. Remove extension cords placed under rugs, furniture, or where subject to damage.	
85.104	____ d. Maintain wiring in good condition and protect from damage.	
	2. EXITS:	
T-19	____ a. Remove all other locks or latches from doors with panic hardware	
12.103a	____ b. Remove obstructions from exits, aisles, corridors, and stairways.	
12.104b	____ c. Unlock all exit doors during business hours.	
12.113	____ d. Provide lighting for corridors, stairways, and exterior exitways.	
12.114a	____ e. Exit signs. ____ Install ____ Repair	
10.402	____ f. Remove obstruction(s) and alterations to fire doors.	
	3. FIRE EXTINGUISHERS:	
10.301	____ a. Provide ____ extinguisher(s) of a _____ minimum rating.	
10.301	____ b. Mount extinguishers where readily available, with top not higher than 5 feet.	
10.301	____ c. Post signs indicating location where extinguishers are not readily visible.	
T-19	____ d. Service and tag (by State Licensee) each extinguisher annually and after use.	
	4. FIRE PROTECTION INSTALLATIONS: Sprinkler System Yes ____ No ____	
10.302	____ a. Maintain access to, and operation of standpipes, fire hose, and sprinkler valves.	
10.302	____ b. Inspect and test sprinkler system monthly and maintain records.	
10.302	____ c. Identify sprinkler valves and secure in open position.	
10.302	____ d. Provide spare sprinklers (6 minimum) and sprinkler wrench.	
10.315e	____ e. Inspect and service hood and duct extinguishing system over cooking equipment semi-annually and after use.	
10.302	____ f. Remove decorations or other attachments from sprinkler system.	
10.302	____ g. Replace damaged, corroded or painted sprinkler heads.	
	5. FIRE ALARM SYSTEMS	
10.307e	____ a. Maintain fire alarm system in operable condition and test monthly.	
	6. FLAMMABLE LIQUIDS	
79.201e	____ a. Reduce Class 1 (gasoline, etc.) to less than 5 gallons indoors, not in storage cabinets.	
79.201e	____ b. Reduce Class II, III (solvents, etc.) to less than 25 gallons indoors, not in storage cabinets.	
79.201e	____ c. Remove flammable liquids not used for maintenance in assembly buildings, offices, apartments and motels.	
79.201f	____ d. Remove flammable liquids not stored in original cans or approved safety containers.	
79.803d	____ e. Provide static electrical bonding and grounding for all dispensing operations.	
79.201d	____ f. Store flammable liquids *away* from corridors, main aisles, stairways, and exit areas.	
79.802e	____ g. Discontinue gravity dispensing from containers exceeding 5 gallons or provide pump taking suction from the top.	
79.802e	____ h. Discontinue the discharge of flammable and combustible liquids into drains or on the ground.	
	7. HEAT PRODUCING APPLIANCES:	
11.403c	____ a. Remove combustibles and storage from heater area or room.	
11.405	____ b. Provide clearance between heat producing appliances and combustible material.	
	8. HOUSEKEEPING (INTERIOR):	
11.202	____ a. Remove or store rubbish, waste material, and oily rags in closed metal containers.	
10.315f	____ b. Clean grease filters and hood duct systems over cooking appliances.	
76.103	____ c. Provide waste collecting receptacles at dust producing machines.	
	9. RUBBISH (OUTSIDE ACCUMULATION):	
11.202	____ a. Remove waste, trash, and weeds, OR store in closed metal or metal-lined containers.	
	10. SMOKING AND OPEN FLAMES:	
13.101	____ a. Post and enforce "NO SMOKING" signs: _____	
13.101	____ b. Provide ash trays, sand receptacles, or butt cans, where smoking is permitted.	
	11. STORAGE:	
12.103a	____ a. Remove storage from exits, aisles, corridors and on or under stairways.	
11.202	____ b. Arrange storage in orderly manner and provide for exiting and Fire Department access.	
NFPA 13	____ c. Remove storage to 18" below level of sprinklers (36" for storage piled over 12 feet high).	
11.203e	____ d. Reduce storage height to at least 2 feet below ceiling.	
74.107	____ e. Secure and identify compressed gas cylinders with name of product.	
11.408	____ f. Keep attic access and scuttle openings closed.	

ADDITIONAL COMMENTS AND/OR REQUIREMENTS: NO VIOLATIONS

COMPANY OFFICER	COMPANY	SHIFT	
A/Capt [signature]	4	A	YOU ARE HEREBY NOTIFIED TO CORRECT THE ABOVE CONDITIONS WITHIN ____ DAYS.
	DATE OF FIRST INSP.	1-13-87	

CRC PM

City of San Leandro
Civic Center, 835 E. 14th Street
San Leandro, California 94577

"Smoke Detectors Save Lives"

FIRE DEPARTMENT

March 10, 1982

San Leandro Rentals
14273 ~~E. 14th. St.~~ Washington
San Leandro, Ca 94578

Gentlemen:

Approval is hereby granted to install one (1) propane tank as indicated on attached drawing.

1) Provide no less than 5 feet clearance between building and location of the tank.

2) Install crash post as shown on the drawing

3) Provide seismic anchoring for the tank

4) Obtain required permits for the electrical hookup from the Public Works Department

S. Mikinka by JD
Stephen V. Mikinka, Battalion Chief
Fire Prevention Bureau

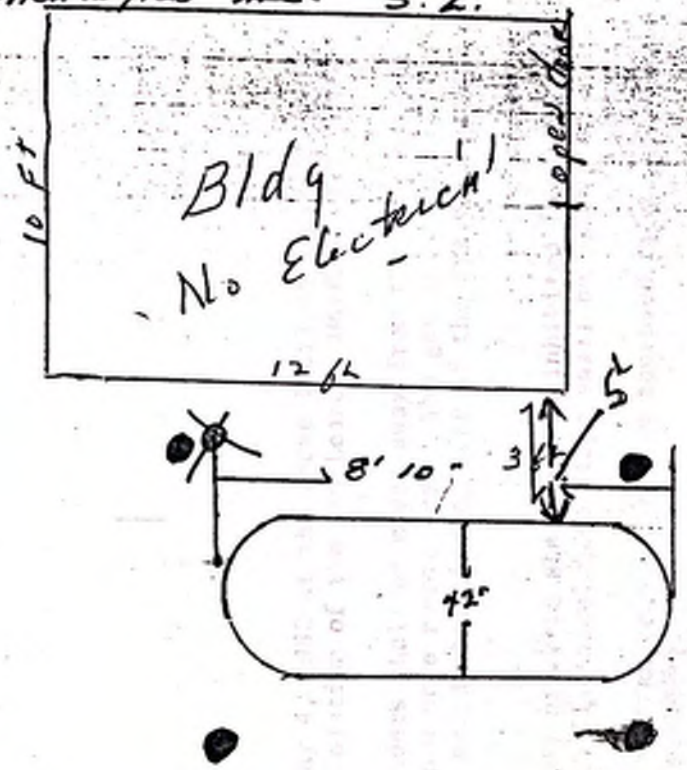
JD:mr

Valance Gill, Mayor

City Council: Mrs. Faith Frazier; Johan Klehs; L.N. "Judge" Landis;
Don McCue; Gunner Seymon, Richard D. Soares. Lee Riordan, City Manager

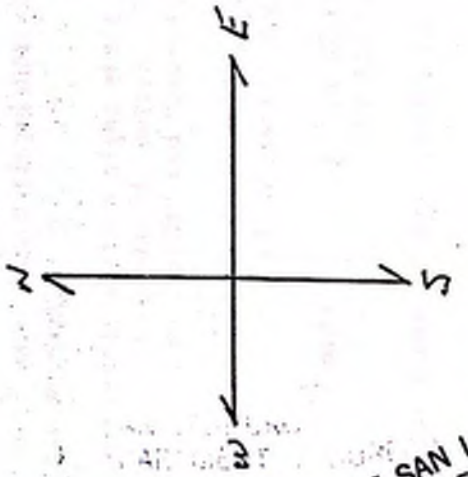
SAN LEANDRO Rental Svc
1473 WASHINGTON Ave. S.L.

WASHINGTON Ave



DRIVE WAY

MAIN Bldg



Electrical
½ HP 1STR
Single Phase
115-230 Volts

Impact Posts
4" Diameter
3' From Tank - 5' Apart
2' Down - 3' Up - Set
& Filled w/ Concrete

CITY OF SAN LEANDRO
FIRE DEPARTMENT
MAR 8 1982
FIRE PREVENTION BUREAU
BY JP

500 Gallons

City of San Leandro
Civic Center, 835 E. 14th Street
San Leandro, California 94577

FIRE DEPARTMENT

"Smoke Detectors Save Lives"

May 6, 1982

Mr. Victor Bald
San Leandro Rental
14273 Washington Ave.
San Leandro, Ca 94578

Dear Mr. Bald:

A fire safety inspection on May 4, 1982 at the above facility revealed the following conditions are in violation of the San Leandro Uniform Fire Code:

1. The forklift propane cylinders shall be moved away from the west end of the building and stored in a more remote area. The gas cylinders shall be secured to prevent the accidental tipping over of the cylinders and resultant damage.

2. The operation of the circuit breakers shall not be inhibited in any manner, per the San Leandro Electrical Code (tape shall be removed).

3. Gasoline storage shall be limited to a one gallon approved type container when stored in the building.

4. The location of each fire extinguisher shall be conspicuously posted with an approved sign.

5. Durable, permanently affixed signs shall be provided to locate and designate the gasoline pump shutoff switch. The signs shall state "Emergency Pump Shutoff Located Inside" and "Emergency Pump Shutoff."

6. Spray painting operations shall be discontinued unless a proper ventilation system is installed in a spray area.

Corrections shall be made within 15 days of the date of this letter, after which time the premises will be reinspected for compliance.

If you have any questions, please contact us at 577-3317 or 577-3318.

Very truly yours,

Harold L. Hamilton, Fire Chief

Stephen V. Mikinka, Battlion Chief

RS:mr Sta. 4/A

cc: Valance Gill, Mayor

City Council: William F. Jardin; Dave Karp; L. N. "Judge" Landis; Don McGue; Richard D. Soares; Edwin J. Suchman. Lee Riordan, City Manager

SLFD Form FPCI-4
3.11.81/mr. (500)

SAN LEANDRO FIRE DEPARTMENT

FIRE COMPANY SAFETY INSPECTION

Name of Occupancy: San Leandro Realtor Address: 14273 Washington Telephone: 357-5900
Apartment Manager: _____ Address: _____ Telephone: _____
Apartment Owner: Victor Baldi Address: 5394 Elaine C.V. Telephone: 581-0338
No. of Units: _____ No. of Bldgs: _____ No. of Stories: _____ Type of Construction: _____

1. FIRE PROTECTION EQUIPMENT (EXTERIOR)

	VN	NA	OK
PRIVATE HYDRANTS: ☐ yes ☐ no			
(a) Accessible, obstructed	☐	☐	☐
(b) General condition	☐	☐	☐
DRY STANDPIPE SYSTEM: ☐ yes ☐ no			
(c) Obstructed, Caps, Threads, Valves	☐	☐	☐
(d) Fire Department connection	☐	☐	☐
SPECIAL STANDPIPE HYDRANTS: ☐ yes ☐ no			
(e) Obstructed, Caps, Threads, Valves	☐	☐	☐
(f) Fire Department connection	☐	☐	☐

2. FIRE PROTECTION EQUIPMENT (INTERIOR)

	VN	NA	OK
EXTINGUISHERS: Water type ____ CO_2 ____ Dry Chemical ____			
(a) Annual Service	☐	☐	☐
(b) Location and Number	☐	☐	☐
(c) Proper type for Class of Fire	☐	☐	☐
WET STANDPIPE SYSTEM: ☐ yes ☐ no			
(d) Hose condition	☐	☐	☐
(e) Nozzle condition	☐	☐	☐
(f) Obstructed, Caps, Threads, Valves	☐	☐	☐
DRY STANDPIPE SYSTEM: ☐ yes ☐ no			
(g) Obstructed, Caps, Threads, Valves	☐	☐	☐
(h) Fire Department connection	☐	☐	☐
SPRINKLER SYSTEM: ☐ yes ☐ no			
(i) Valves ☐ on ☐ off	☐	☐	☐
(j) General condition F.D.C.	☐	☐	☐
FIRE ALARM SYSTEM: ☐ yes ☐ no			
(k) Test results	☐	☐	☐
(l) Battery condition	☐	☐	☐

3. EXITS

	VN	NA	OK
STAIRWAY ENCLOSURES:			
(a) Obstructed	☐	☐	☐
(b) Self closing device (Tested P.O.C. - Mech)	☐	☐	☐
OTHER EXITS - FIRE RATED DOORS			
(c) Obstructed	☐	☐	☐
(d) Self closing device (Tested P.O.C. - Mech)	☐	☐	☐

3. EXITS CONTINUED

	VN	NA	OK
EXTERIOR EXITS - CORRIDORS, BALCONIES AND STAIRS:			
(e) Obstructed	☐	☐	☐
EXIT SIGNS:			
(f) Letter size (5 inches)	☐	☐	☐
(g) Direction arrows	☐	☐	☐
(h) Illumination	☐	☐	☐
(i) Location - visibility	☐	☐	☐
MISCELLANEOUS:			
(j) Panic Hardware required	☐	☐	☐
(k) Occupant load posted	☐	☐	☐

4. GENERAL CONDITIONS

	VN	NA	OK
STORAGE:			
(a) Combustibles near ignition source	☐	☐	☐
(b) Housekeeping	☐	☐	☐
(c) Trash Container(s)	☐	☐	☐
FLAMMABLE LIQUIDS, GASES AND OTHER HAZARDOUS MATERIALS:			
(d) Quantity	☐	☐	☐
(e) Approved containers	☐	☐	☐
(f) Approved storage area	☐	☐	☐
ELECTRICAL:			
(g) Hazardous condition	☐	☐	☐
(h) Overload	☐	☐	☐
(i) Fusing	☐	☐	☐
(j) Extension cords	☐	☐	☐
HEATING APPLIANCES:			
(k) Venting	☐	☐	☐
(l) Connections	☐	☐	☐
(m) General conditions	☐	☐	☐
BUILDING EXTERIOR:			
(n) Weeds	☐	☐	☐
(o) Fire Department access	☐	☐	☐
(p) Parking	☐	☐	☐

Company Officer: Red Mendes
District: 21 Platoon: A
Date of First Inspection: 5-4-82

Comments and Recommendations:

1. PROPANE CANNISTERS NEXT to BUILDING. RECOMMEND AWAY FROM WINDOW AND ANCHOR AS TO KEEP UPRIGHT. (PORTABLE BOTTLES FOR FORKLIFTS)
2. REMOVE TAPE FROM BREAKER SWITCHES
3. EXTINGUISHER NEED SIGNS.
4. GAS STORED IN BUILDING IN NON-APPROVED CANS
5. DISCONTINUE SPRAY PAINTING IN SHOP AREA.
6. NO EMERGENCY FUEL PUMP SWITCH OR SIGN IN SIGHT OF ISLAND LATEX PAINTS.

1) The forklift propane cylinders should be moved away from the west end of the building and stored in a more remote area. The gas cylinders shall be secured to prevent the accidental tipping over of the cylinders and resultant damage.

2) The tape used over the electrical circuit breakers shall be removed and the operation of the circuit breakers shall not be inhibited in any manner per the S.L. Electrical Code.

3) Gasoline storage shall be limited to one gallon container of the approved type when stored in the building.

4) #5

5) ~~Recommend~~ Durable, permanently affixed signs shall be provided to locate ~~the~~ and designate the gasoline pump shut off switch. The signs shall state, "EMERGENCY PUMP SHUTOFF LOCATED INSIDE" and "EMERGENCY PUMP SHUTOFF."

6.) Spray painting operations shall be discontinued unless proper ventilation system is installed in a spray area.

2/16/82

City of San Leandro
Civic Center, 835 E. 14th Street
San Leandro, California 94577

"Smoke Detectors Save Lives"

FIRE DEPARTMENT

December 28, 1979

Mr. Victor Baldi
San Leandro Rental Service
14273 Washington Ave.
San Leandro, Ca 94578

Dear Mr. Baldi:

A fire safety inspection on December 6, 1979 at the above premises revealed that the following conditions are in violation of the San Leandro Uniform Fire Code:

1. The use of extension cords shall be discontinued throughout premises. Appliances shall be relocated and plugged directly into existing electrical outlets or permanent wiring outlets shall be installed per the San Leandro Electrical Code.

2. The wiring in the storage area shall be brought up to the San Leandro Electrical Code specifications. For information on codes and permits, contact electrical inspector at 577-3420.

3. The junction boxes in storage area shall be provided with approved cover plates.

Corrections shall be made within 15 days of the date of this letter, after which time the premises will be reinspected for compliance.

If you have any questions, please contact us at 577-3317 or 577-3318.

Very truly yours,

Harold L. Hamilton, Fire Chief

S. Mikinka

Stephen V. Mikinka, Battalion Chief
Fire Prevention Bureau

HLH:FN:mr

cc: Sta. 4, C Shift

Valance Cill, Mayor
City Council: Gunner Seymon, Vice Mayor;
Mrs. Faith Frazier; Johan Klehs; L.N. "Judge" Landis;
Don McCue; Richard D. Soares. Lee Riordan, City Manager

SLFD Form FPCI-4
6.27.79 mr (500)

SAN LEANDRO FIRE DEPARTMENT

FIRE COMPANY SAFETY INSPECTION

Name of Occupancy: San Leandro Rental Service Address: 14273 Washington Ave

Apartment Manager: _____ Address: _____ Telephone: _____

Apartment Owner: Victor Baldi Address: 5394 Elaine C.V. Telephone: 581-0338

No. of Units: _____ No. of Bldgs: _____ No. of Stories: _____ Type of Construction: _____

1. FIRE PROTECTION EQUIPMENT (EXTERIOR)

	VN	NA	OK
PRIVATE HYDRANTS: ☐ yes ☐ no			
(a) Accessible, obstructed	☐	☑	☐
(b) General condition	☐	☐	☐
DRY STANDPIPE SYSTEM: ☐ yes ☐ no			
(c) Obstructed, Caps, Threads, Valves	☐	☐	☐
(d) Fire Department connection	☐	☐	☐
SPECIAL STANDPIPE HYDRANTS: ☐ yes ☐ no			
(e) Obstructed, Caps, Threads, Valves	☐	☐	☐
(f) Fire Department connection	☐	☐	☐

2. FIRE PROTECTION EQUIPMENT (INTERIOR)

	VN	NA	OK
EXTINGUISHERS: Water type ____ CO_2 ✓ Dry Chemical ____			
(a) Annual Service	☒	☐	☐
(b) Location and Number	☐	☐	☐
(c) Proper type for Class of Fire	☐	☐	☐
WET STANDPIPE SYSTEM: ☐ yes ☐ no			
(d) Hose condition	☐	☐	☐
(e) Nozzle condition	☐	☐	☐
(f) Obstructed, Caps, Threads, Valves	☐	☐	☐
DRY STANDPIPE SYSTEM: ☐ yes ☐ no			
(g) Obstructed, Caps, Threads, Valves	☐	☐	☐
(h) Fire Department connection	☐	☐	☐
SPRINKLER SYSTEM: ☐ yes ☐ no			
(i) Valves ☐ on ☐ off	☐	☐	☐
(j) General condition F.D.C.	☐	☐	☐
FIRE ALARM SYSTEM: ☐ yes ☐ no			
(k) Test results	☐	☐	☐
(l) Battery condition	☐	☐	☐

3. EXITS

	VN	NA	OK
STAIRWAY ENCLOSURES:			
(a) Obstructed	☐	☐	☐
(b) Self closing device (Tested P.O.C. - Mech)	☐	☐	☐
OTHER EXITS - FIRE RATED DOORS			
(c) Obstructed	☐	☐	☐
(d) Self closing device (Tested P.O.C. - Mech)	☐	☐	☐

3. EXITS CONTINUED

	VN	NA	OK
EXTERIOR EXITS - CORRIDORS, BALCONIES AND STAIRS:			
(e) Obstructed	☐	☐	☐
EXIT SIGNS:			
(f) Letter size (5 inches)	☐	☒	☐
(g) Direction arrows	☐	☐	☐
(h) Illumination	☐	☐	☐
(i) Location - visibility	☐	☐	☐
MISCELLANEOUS:			
(j) Panic Hardware required	☐	☐	☐
(k) Occupant load posted	☐	☐	☐

4. GENERAL CONDITIONS

	VN	NA	OK
STORAGE:			
(a) Combustibles near ignition source	☐	☐	☐
(b) Housekeeping	☐	☐	☐
(c) Trash Container(s)	☐	☐	☐
FLAMMABLE LIQUIDS, GASES AND OTHER HAZARDOUS MATERIALS:			
(d) Quantity	☐	☐	☐
(e) Approved containers	☐	☐	☐
(f) Approved storage area	☐	☐	☐
ELECTRICAL:			
(g) Hazardous condition	☒	☐	☐
(h) Overload	☐	☐	☐
(i) Fusing	☐	☐	☐
(j) Extension cords	☒	☐	☐
HEATING APPLIANCES:			
(k) Venting	☐	☐	☐
(l) Connections	☐	☐	☐
(m) General conditions	☐	☐	☐
BUILDING EXTERIOR:			
(n) Weeds	☐	☐	☐
(o) Fire Department access	☐	☐	☐
(p) Parking	☐	☐	☐

Company Officer: L. Kruger

District: 2 Platoon: C

Date of First Inspection: 8-6-79

Date of Second Inspection: _____

1. Extension cords in office must be replaced with fixed wiring.
2. Wiring in storage area must be replaced by fixed wiring.
3. Cover plate in storage area missing.

1) #8 IN OFFICE.

2) #16

3) #14 COVER PLATES SHALL BE PROVIDED IN STORAGE AREA.

CITY OF SAN LEANDRO
BUSINESS LICENSES
835 E. 14TH STREET
SAN LEANDRO, CALIF. 94577

APPLICATION FOR CITY BUSINESS LICENSE

Renewal

(PLEASE TYPE OR PRINT CLEARLY)

FOR ASSISTANCE OR INFORMATION CALL 638-4100, EXT. 384

IN ACCORDANCE WITH THE SAN LEANDRO MUNICIPAL CODE, I HEREBY MAKE APPLICATION FOR A CITY BUSINESS LICENSE FOR THE PURPOSE OF:

DESCRIBE BUSINESS ACTIVITY IN DETAIL: renting equipment

NAME AND LOCATION OF BUSINESS IN SAN LEANDRO

(POST OFFICE - BOX NUMBER IS NOT ACCEPTABLE)

BUSINESS NAME: SAN LEANDRO RENTAL SERVICE TELEPHONE 357-5900

STREET ADDRESS: 14273 Washington Ave.-Castro San Leandro, Calif.

IF PROPERTY IS LEASED PLEASE COMPLETE THE FOLLOWING:

NAME AND ADDRESS OF OWNER

RENTABLE SQUARE FEET OF BUILDING

MAILING INFORMATION

IF LICENSE, RENEWAL APPLICATIONS, AND CORRESPONDENCE ARE TO BE MAILED TO A MAIN OFFICE OR HEADQUARTERS OTHER THAN THE ABOVE, PLEASE COMPLETE THE FOLLOWING.

NAME

STREET ADDRESS

CITY STATE ZIP CODE

OWNERSHIP INFORMATION

CHECK ONE: ☐ INDIVIDUAL ☐ PARTNERSHIP ☑ CORPORATION

LIST FULL NAMES OF OWNERS OR OFFICERS (IF PARTNERSHIP-LIST ALL PARTNERS IF CORPORATION-LIST ALL PRINCIPAL OFFICERS)	TITLE OR POSITION	PERSONAL ADDRESS AND TELEPHONE NUMBERS		
		STREET	CITY AND STATE	TELEPHONE NUMBER
Victor D. Baldi	Pres.	5394 Klaine	Castro Valley	581-0338
Betty Baldi	Sec.	" "	" "	" "
David Menconi	V. Pres	22109 Betlen Way	" "	581-7034

IF CORPORATION

CORPORATE NAME SAN LEANDRO RENTAL SERVICE, INC. STATE WHERE INCORPORATED CALIF. DATE OF INCORP.

STATE LICENSING REQUIREMENTS

IF THE OPERATION OF THIS BUSINESS REQUIRES THAT YOU HAVE A STATE LICENSE PLEASE FURNISH THE FOLLOWING INFORMATION:

TYPE OF LICENSE: LICENSE NUMBER:

CLASS: EXPIRATION DATE: SALES TAX PERMIT NO. C 15 [illegible]

MISCELLANEOUS

IS BUSINESS BEING PURCHASED FROM PRECEDING OWNER(S)? ☐ YES ☐ NO IF YES GIVE SELLER'S NAME

CERTIFICATION

I DECLARE THAT I AM AUTHORIZED TO MAKE THIS APPLICATION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL THE INFORMATION GIVEN IS TRUE, ACCURATE AND COMPLETE. I ALSO FULLY UNDERSTAND THAT THE FILING OF THIS APPLICATION AND THE PAYMENT OF A FEE DOES NOT CONSTITUTE THE ISSUANCE OF A BUSINESS LICENSE AND DOES NOT ENTITLE ME TO COMMENCE OR CARRY ON ANY BUSINESS IN THE CITY OF SAN LEANDRO UNTIL SAID BUSINESS LICENSE IS APPROVED AND ISSUED.

SIGN HERE ▶ OFFICIAL CAPACITY DATE

FOR CITY USE ONLY

DATE TAKEN BY:

POLICE DEPT.	FIRE DEPT.	COMMUNITY DEVELOPMENT	CODE COMPLIANCE	FINANCE
☐ RELEASE ☐ HOLD	☐ RELEASE ☐ HOLD	☐ RELEASE ☐ HOLD	☐ RELEASE ☐ HOLD	☐ APPROVED ☐ DENIED
REASON:	REASON:	REASON:	REASON:	REASON:
BY:	BY:	BY:	BY:	BY:
DATE:	DATE:	DATE:	DATE:	DATE:

FORM 203 - 2s

FIRE DEPARTMENT

Res. 278-5396
Bus. 568-0938
568-0686

D. L. STEVENS CO., INC.
SERVICE STATION EQUIPMENT
SALES · SERVICE · REPAIR

R. L. STEVENS
VICE PRESIDENT

990 · 98TH AVENUE
OAKLAND, CALIF. 94603

LEANDRO FIRE DEPARTMENT -1-

tion Procedure Regarding
ROUND TANK Installations
(SUBMERGIBLE PUMP)

First Inspection:

1. Tank or tanks will be inspected by the Fire Department before any back filling operations are started.
2. For the purpose of lifting and handling, "cat eyes" must be welded to tanks.
3. Inspection of condition of tanks:
   a. Damage to tanks
   b. Any scaling or damage to protective covering of tank
4. Back fill to be sand, firmly tamped, which shall extend one (1) foot beyond the tank in all directions.

Second Inspection:

1. Inspection of piping is required before covering. A notification shall be given to the Fire Chief, who shall, himself, or through an authorized member of the department, inspect and give his approval or disapproval thereof.
2. Tank and piping are to be given a hydrostatic test or a pressure test using a Mercury gauge. (Mercury gauge to be furnished by installer)

Date June 20, 1974 Name SAN LEANDRO RENTAL SERVICE

Location 14273 Washington Avenue

Remarks in regard to this installation: (notes are also added to the plans received)

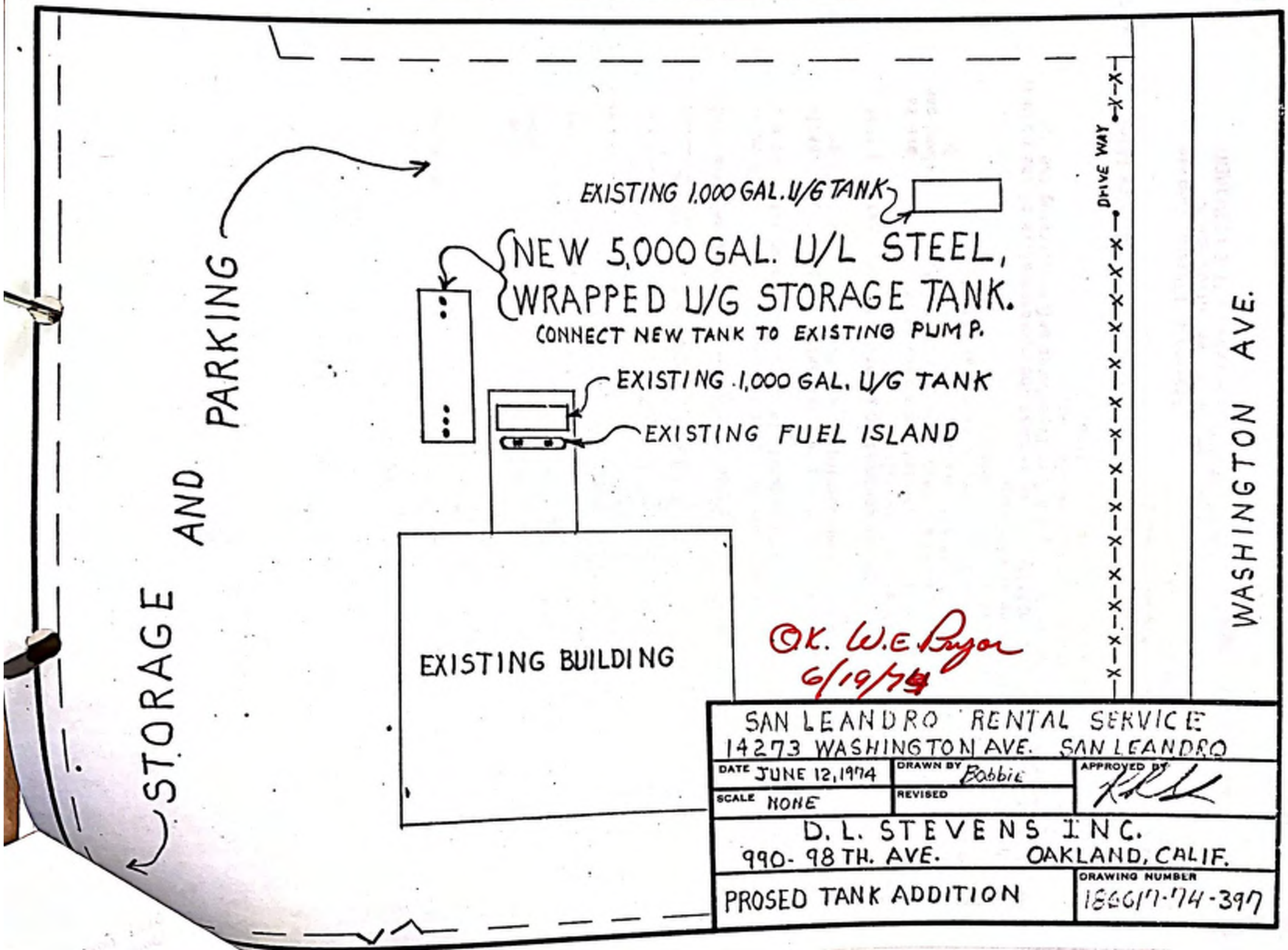
1. Full buoyancy of completely empty tanks should be calculated to see if anchorage or weight is needed to hold the tanks securely in place at the high-water table of this area.
2. Vent piping shall not terminate less than 3 feet measuring horizontally or vertically in any window or other building opening or header, and 18" above wall or highest part of building.
3. "NO SMOKING" - "STOP MOTOR" signs, of contrasting color, shall be located so that they are visible from either side of the island.
4. Where vehicular traffic over tank is expected, as a measure of safety tanks are to be covered with reinforced concrete at least 6" in thickness which shall extend one foot beyond the outline of tanks in all directions.
5. We recommend one 15# CO^2 fire extinguisher, or equal, at island.
6. Approved safety shutoff valve at each dispenser.
7. Approved safety shutoff valve at each pump.
8. In order to expedite this installation, we request the representative of the company doing the work to notify the San Leandro Fire Department before starting the job and to go over the underground storage regulations.
9. Plumbing permit for tanks at Public Works Office.

Harold L. Hamilton, Fire Chief
by S. M. Nikinka
Stephen V. Nikinka, Captain
FIRE PREVENTION BUREAU
SAN LEANDRO FIRE DEPARTMENT

5,000 gallon, UL steel wrapped gasoline tank to be installed by the D. L. Stevens Company, 990 - 98th Avenue, Oakland (568-0938).

Stephen Mikinka, Capt.

OK'd Insp, Cooper
Fire Prevention
8/9/74


EXISTING 1,000 GAL. U/G TANK
NEW 5,000 GAL. U/L STEEL, WRAPPED U/G STORAGE TANK.
CONNECT NEW TANK TO EXISTING PUMP.
EXISTING 1,000 GAL. U/G TANK
EXISTING FUEL ISLAND
EXISTING BUILDING
STORAGE AND PARKING
DRIVE WAY
WASHINGTON AVE.
O.K. W.E. Boyer 6/19/74
SAN LEANDRO RENTAL SERVICE
14273 WASHINGTON AVE. SAN LEANDRO
DATE JUNE 12, 1974
DRAWN BY Bobbie
APPROVED BY
SCALE NONE
REVISED
D. L. STEVENS INC.
990- 98 TH. AVE. OAKLAND, CALIF.
PROSED TANK ADDITION
DRAWING NUMBER
1866(7)-74-397

11

SLFD Form FP-5 (1)
January 11, 1974 - 200(jd)

SAN LEANDRO FIRE DEPARTMENT

Inspection Procedure Regarding
UNDERGROUND TANK Installations
(SUBMERGIBLE PUMP)

First Inspection:

1. Tank or tanks will be inspected by the Fire Department before any back filling operations are started.
2. For the purpose of lifting and handling, "cat eyes" must be welded to tanks.
3. Inspection of condition of tanks:
   a. Damage to tanks
   b. Any scaling or damage to protective covering of tank
4. Back fill to be sand, firmly tamped, which shall extend one (1) foot beyond the tank in all directions.

Second Inspection:

1. Inspection of piping is required before covering. A notification shall be given to the Fire Chief, who shall, himself, or through an authorized member of the department, inspect and give his approval or disapproval thereof.
2. Tank and piping are to be given a hydrostatic test or a pressure test using a Mercury gauge. (Mercury gauge to be furnished by installer)

Date **June 20, 1974** Name **SAN LEANDRO RENTAL SERVICE**

Location **14273 Washington Avenue**

Remarks in regard to this installation: (notes are also added to the plans received)

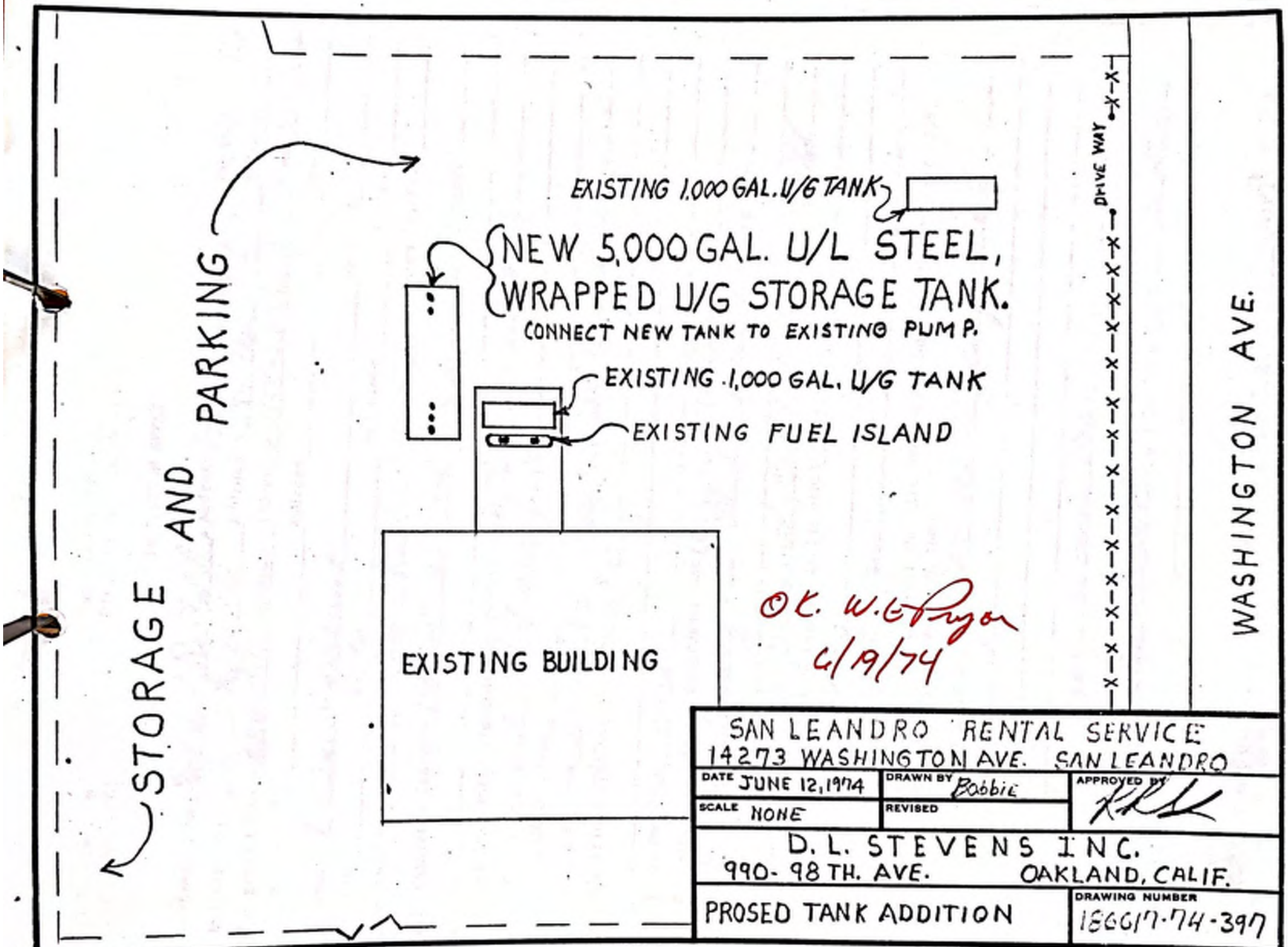
1. Full buoyancy of completely empty tanks should be calculated to see if anchorage or weight is needed to hold the tanks securely in place at the high-water table of this area.
2. Vent piping shall not terminate less than 3 feet measuring horizontally or vertically in any window or other building opening or header, and 18" above wall or highest part of building.
3. "NO SMOKING" - "STOP MOTOR" signs, of contrasting color, shall be located so that they are visible from either side of the island.
4. Where vehicular traffic over tank is expected, as a measure of safety tanks are to be covered with reinforced concrete at least 6" in thickness which shall extend one foot beyond the outline of tanks in all directions.
5. We recommend one 15# CO^2 fire extinguisher, or equal, at island.
6. Approved safety shutoff valve at each dispenser.
7. Approved safety shutoff valve at each pump.
8. In order to expedite this installation, we request the representative of the company doing the work to notify the San Leandro Fire Department before starting the job and to go over the underground storage regulations.
9. Plumbing permit for tanks at Public Works Office.

5,000 gallon, UL steel wrapped gasoline tank to be installed by the D. L. Stevens Company, 990 - 98th Avenue, Oakland (568-0938).

Harold L. Hamilton, Fire Chief
by
Stephen V. Mikinka, Captain
FIRE PREVENTION BUREAU
SAN LEANDRO FIRE DEPARTMENT

OK'd Insp. Cooper
Fire Prevention
8/9/74

Stephen Mikinka, Capt.



PRINTED ON Cantwell OPALINE 350M

Dry 5-HTI
CO2 5-11
15-1
WT-11

SLFD Form FP 9
3-2-72/ba(1000)

San Leandro Fire Department
Division of Fire Prevention

INSPECTION SHEET

Business Name San Leandro Rental Service Address 14273-Washington Phone 357-5900
Business Owner Victor D. Baldi Address 5394 Elaine C.V. Phone 581-0338
Emergency Contact David Menconi Address 22109-Betlen C.V. Phone 581-7034
" " Address Phone

Occupancy Rental Equipment Basement
1st Floor ✓ 2nd Floor 3rd Floor 4th Floor
Construction Concrete Block - Roof - Comp. Area Sq. Ft.

(a) Hazardous Contents Paints & Solvents in seperate room

(b) Heating System (Include gas shutoff here) Gas Space Heaters
Shut off - East side of Bldg front

(c) Inside Protection

(d) Exit Locations Side & Rear North Wall of front garage

(e) Electrical (Include shutoffs) Shut off

(f) Floor Openings none

(g) Flammable Liquids and Compressed Gas Oxygen & Acetylene
2-1000 Gal Underground Tanks - Diesel & Gasoline

(h) Housekeeping

(i) Exposures Morgan Stone yard South, Cocktail Lounge on North

(j) Trash/Ash Storage (Include type of incinerator) Hauloway

(k) Sprinklers: ADT Other

(l) Hydrants On Washington Ave.

Remarks and Recommendations: (Please call the Fire Prevention Bureau, 638-4100, Ext. 204, 207, or 206 when recommendations have been completed.)

1- Extinguishers in first & second garage need servicing OK

2- Install - Exit signs over man door OK

3- Install flamable sign & no smoking on door of flamable storage room OK

(See reverse for additional remarks.)

V Baldi
Owner/Tenant Signature

Inspector Cooper Date 9-7-72

Remarks and Recommendations (continued)

APARTMENT HOUSES

1. Bldg. Constr. _____
2. Exits _____
3. Stairways _____
4. Fire Escapes _____
5. Standpipes _____
6. Inside Lines _____
7. Extinguishers _____
8. Skylights _____
9. Date Constr. _____
10. Conversion Date _____
11. No. of Units _____
12. Stories _____
13. Heaters _____
14. Garages _____
15. Roof Constr. _____
16. Basement _____
17. Drop Ladder _____
18. Light Wells _____
19. Incinerator _____
20. Elevator _____
21. Alarm System _____
22. Swimming Pool _____
23. Fire Dept. Connection _____

CITY OF SAN LEANDRO
BUSINESS LICENSES
835 E. 14TH STREET
SAN LEANDRO, CALIF. 94577

APPLICATION FOR CITY BUSINESS LICENSE

(PLEASE TYPE OR PRINT CLEARLY)

FOR ASSISTANCE OR INFORMATION CALL 638-4100, EXT. 238

IN ACCORDANCE WITH TITLE II, CHAPTER 2, SECTION 2-2-105 OF THE SAN LEANDRO MUNICIPAL CODE, I HEREBY MAKE APPLICATION FOR A CITY BUSINESS LICENSE FOR THE PURPOSE OF:

DESCRIBE BUSINESS ACTIVITY IN DETAIL: RENTAL OF EQUIPMENT-CONSTRUCTION ETC.

NAME AND LOCATION OF BUSINESS IN SAN LEANDRO

(POST OFFICE-BOX NUMBER IS NOT ACCEPTABLE)

BUSINESS NAME: SAN LEANDRO RENTAL SERVICE TELEPHONE 357-5900

STREET ADDRESS: 14273 WASHINGTON AVE-SAN LEANDRO

MAILING INFORMATION

IF LICENSE, RENEWAL APPLICATIONS, AND CORRESPONDENCE ARE TO BE MAILED TO A MAIN OFFICE OR HEADQUARTERS OTHER THAN THE ABOVE, PLEASE COMPLETE THE FOLLOWING:

NAME

STREET ADDRESS

CITY STATE ZIP CODE

OWNERSHIP INFORMATION

CHECK ONE: ☐ INDIVIDUAL ☐ PARTNERSHIP ☒ CORPORATION

LIST FULL NAMES OF OWNERS OR OFFICERS (IF PARTNERSHIP-LIST ALL PARTNERS IF CORPORATION-LIST ALL PRINCIPAL OFFICERS)	TITLE OR POSITION	PERSONAL ADDRESS AND TELEPHONE NUMBERS		
		STREET	CITY AND STATE	TELEPHONE NUMBER
VICTOR D. BALDI	PRES.	5394 Elaine	Castro Valley	581-0338
BETTY BALDI	SEC.	5394 Elaine	Castro Valley	581-0338
DAVID MENCONI	VIC. PRES.	22109 Betlen	Castro Valley	581-7034

IF CORPORATION

CORPORATE NAME: SAN LEANDRO EQUIPMENT RENTAL SERVICE STATE WHERE INCORPORATED CALIF. DATE OF INCORP. 8-31-62

STATE LICENSING REQUIREMENTS

IF THE OPERATION OF THIS BUSINESS REQUIRES THAT YOU HAVE A STATE LICENSE, SECTION 2-2-137 OF THE MUNICIPAL CODE STATES THAT YOU MUST FURNISH THE FOLLOWING INFORMATION:

TYPE OF LICENSE: LICENSE NUMBER:

CLASS: EXPIRATION DATE: SALES TAX PERMIT NO. c-152313

MISCELLANEOUS

IS BUSINESS BEING PURCHASED FROM PRECEDING OWNER(S)? ☐ YES ☐ NO IF YES GIVE SELLER'S NAME

CERTIFICATION

I DECLARE THAT I AM AUTHORIZED TO MAKE THIS APPLICATION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL THE INFORMATION GIVEN IS TRUE, ACCURATE AND COMPLETE. I ALSO FULLY UNDERSTAND THAT THE FILING OF THIS APPLICATION AND THE PAYMENT OF A FEE DOES NOT CONSTITUTE THE ISSUANCE OF A BUSINESS LICENSE AND DOES NOT ENTITLE ME TO COMMENCE OR CARRY ON ANY BUSINESS IN THE CITY OF SAN LEANDRO UNTIL SAID BUSINESS LICENSE IS APPROVED AND ISSUED.

SIGN HERE ▶ [signature] OFFICIAL CAPACITY [signature] DATE

FOR CITY USE ONLY

DATE: 8-29-72 TAKEN BY:

POLICE DEPT.	FIRE DEPT.	COMMUNITY DEVELOPMENT	CODE COMPLIANCE	FINANCE
☐ RELEASE ☐ HOLD	☑ RELEASE ☐ HOLD	☑ RELEASE ☐ HOLD	☐ RELEASE ☐ HOLD	☐ APPROVED ☐ DENIED
REASON:	REASON:	REASON:	REASON:	REASON:
BY:	BY: [signature]	BY: [signature]	BY: [signature]	BY: [signature]
DATE:	DATE: 8-29-72	DATE:	DATE: 8-29-72	DATE:

FORM 105 (R)

FIRE DEPARTMENT

SLFD Form FP-5 (2)
9/17/67 - 250

SAN LEANDRO FIRE DEPARTMENT

(2)

Inspection Procedure Regarding
Underground Tank Installations
(Above ground pump)

First Inspection:

1. Tank or tanks will be inspected by the Fire Department before any back filling operations are started.
2. For the purpose of lifting and handling, "cat eyes" must be welded to tanks.
3. Inspection of condition of tanks:
   a. Damage to tanks.
   b. Any scaling or damage to protective covering of tank.
4. Back fill to be sand, firmly tamped, which shall extend one (1) foot beyond the tank in all directions.

Second Inspection:

1. Inspection of piping is required before covering. A notification shall be given the Fire Chief, who shall himself or through an authorized member of the department, inspect and give his approval or disapproval thereof.
2. Tank and piping to be given a hydrostatic test or a pressure test using a Mercury gauge. (Mercury gauge to be furnished by installers)

- -

Date November 18, 1971

Name SAN LEANDRO RENTAL

Location 14273 Washington Avenue

Remarks in regard to this installation: (notes are also added to the plans received)

1. Full buoyancy of completely empty tanks should be calculated to see if anchorage or weight is needed to hold the tanks securely in place at the high-water table of this area.

2. Vent piping shall not terminate less than 3 feet measuring horizontally or vertically in any window or other building opening or header, and 18" above wall or highest part of building.

3. "NO SMOKING", "STOP MOTOR", signs of contrasting color shall be located so that they are visible from either side of the island.

4. Where vehicular traffic over tank is expected, as a measure of safety tanks are to be covered with reinforced concrete at least 6" in thickness which shall extend one foot beyond the outline of tanks in all directions.

5. We recommend one 15# CO-2 fire extinguisher, or equal, at island.

6. In order to expedite this installation, we request the representative of the company doing the work to notify the San Leandro Fire Department before starting the job and to go over the underground storage regulations.

7. Plumbing permit for tanks at Public Works Office.

Manuel Rodriguez, Fire Chief
by Joe Neves
Joe Neves, Captain
Fire Prevention Bureau
San Leandro Fire Department

One (1) 1,000 gal. gasoline tank (wrapped)
to be installed by the D. L. Stevens Inc.,
990 - 98 Ave., Oakland 94603, 568-0938.

OK William Cooper Insp.
11-19-71

OK'd JOE NEVES, Capt.
Fire Prevention
11-18-71

SLFD Form FP-5 (2)
9/17/67 - 250

SAN LEANDRO FIRE DEPARTMENT

(2)

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- -

Date November 18, 1971

Name SAN LEANDRO RENTAL

Location 14273 Washington Avenue

Remarks in regard to this installation: (notes are also added to the plans received)

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11-19-71

Manuel Rodriguez, Fire Chief
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Joe Neves, Captain
Fire Prevention Bureau
San Leandro Fire Department

OK'd JOE NEVES, Capt.
Fire Prevention
11-18-71

PUMPS · LIFTS · METERS · HOSE · COMPRESSORS · LUBRICATION

SAN LEANDRO RENTAL
14273 WASHINGTON
SAN LEANDRO

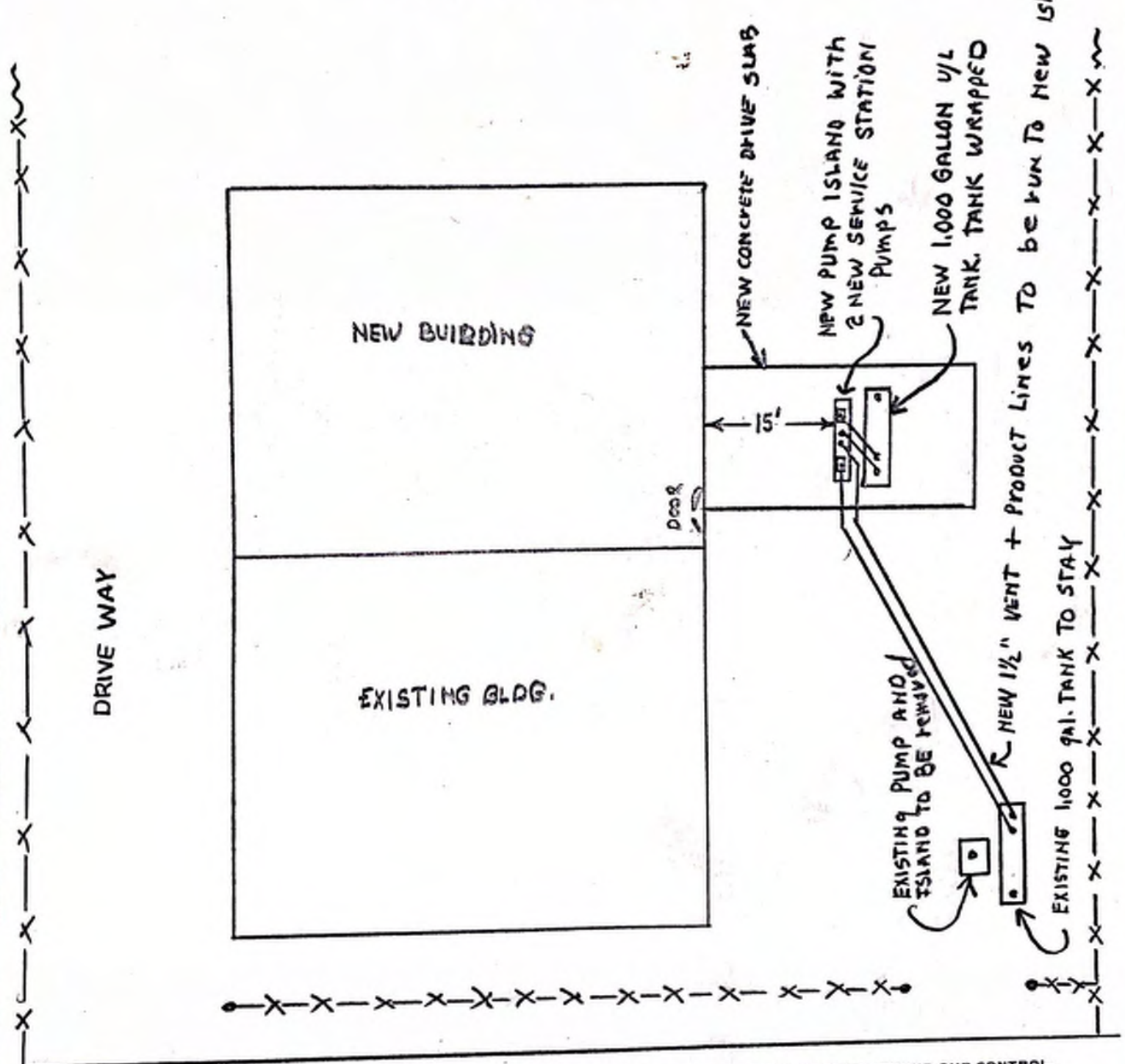
D. L. STEVENS INC.

GENERAL CONTRACTORS
SERVICE STATION AND INDUSTRIAL EQUIPMENT
INSTALLATION - SALES AND SERVICE
990 – 98TH AVENUE
OAKLAND, CALIFORNIA 94603

PHONES 568-0938, 568-1686, RES. 278-5396

NOV. 14, 1971

PROPOSED TANK



ALL QUOTATIONS VOID AFTER THIRTY DAYS. NOT RESPONSIBLE FOR FIRE, FLOODS, STRIKES OR ACTS BEYOND OUR CONTROL.

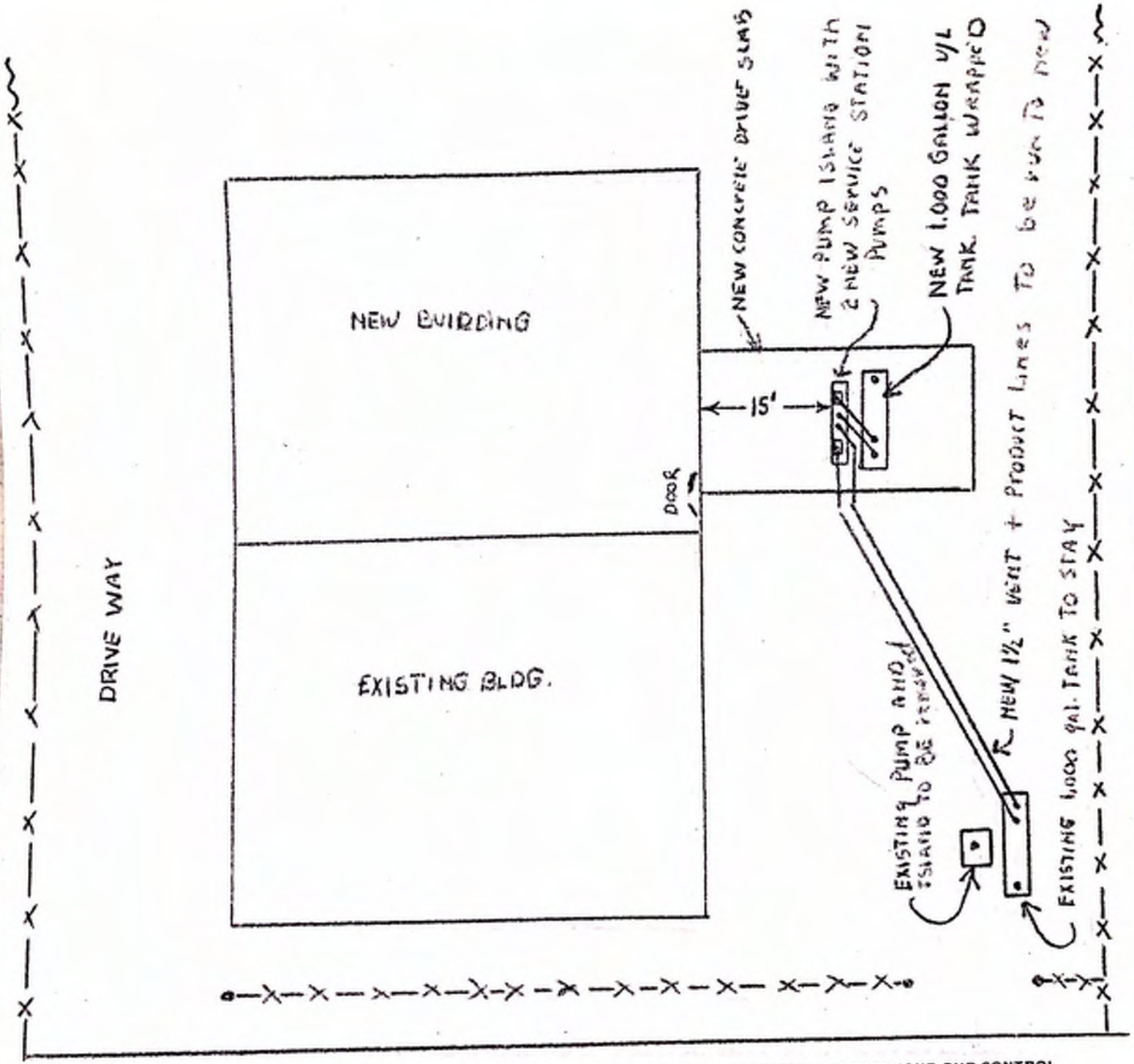
PUMPS · LIFTS · METERS · HOSE · COMPRESSORS · LUBRICATION

SAN LEANDRO RENTAL
14273 WASHINGTON
SAN LEANDRO

D. L. STEVENS INC.
GENERAL CONTRACTORS
SERVICE STATION AND INDUSTRIAL EQUIPMENT
INSTALLATION - SALES AND SERVICE
990 – 98TH AVENUE
OAKLAND, CALIFORNIA 94603
PHONES 568-0938, 568-1686, RES. 278-5396

NOV. 14, 1971

PROPOSED TANK



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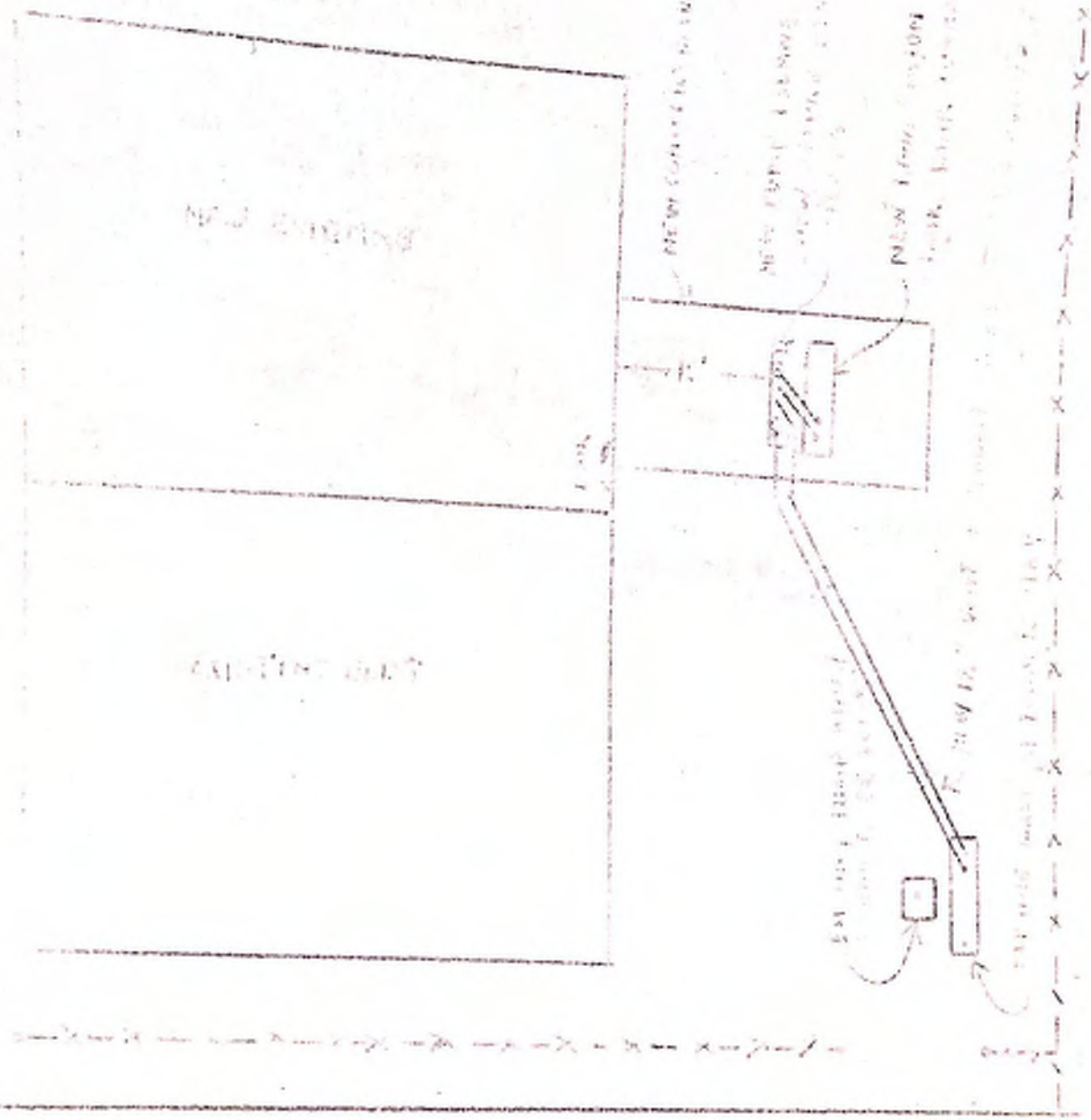
PUMPS · LIFTS · METERS · HOSE · COMPRESSORS · LUBRICATION

D. L. STEVENS INC.

GENERAL CONTRACTORS
SERVICE STATION AND INDUSTRIAL EQUIPMENT
INSTALLATION - SALES AND SERVICE
990 — 98TH AVENUE
OAKLAND, CALIFORNIA 94603

PHONES { 568-0938
568-1686
RES. 278-5396



ALL QUOTATIONS VOID AFTER THIRTY DAYS. NOT RESPONSIBLE FOR FIRE, FLOODS, STRIKES OR ACTS BEYOND OUR CONTROL.

City of San Leandro
FIRE DEPARTMENT

Plan Check ---------- SAN LEANDRO RENTAL ---------- August 18, 1971

14273 Washington Avenue

(addition)

1. Check with the Fire Department before occupancy for type, location, and number of fire extinguishers to be installed.

2. Building, or any portion thereof, shall be provided with exits as required by Chapter 33 of the Uniform Building Code of the City of San Leandro.

JOE NEVES, Captain
Fire Prevention Bureau

JN:ba

BAY AREA AIR POLLUTION CONTROL DIST.
STATE OF CALIFORNIA
939 ELLIS STREET
SAN FRANCISCO, CALIF. 94109 771-6000

NOTICE OF VIOLATION Nº 8233

DATE OF VIOLATION SEPT. 22 19 69 AT 0845 M

SAN LEANDRO RENTAL SERVICE
NAME
14273 WASHINGTON AVE.
ADDRESS
SAN LEANDRO CALIF.
CITY ZONE STATE

DID UNLAWFULLY: CAUSE, PERMIT, SUFFER, ALLOW, MAINTAIN
AT 14273 WASHINGTON AVE. CITY SAN LEANDRO
THE FOLLOWING OFFENSE:

☑ OPEN FIRE IN VIOLATION OF REGULATION 1, CONSISTING OF
PAPERS & OIL

OPEN BURNING IN VIOLATION OF REGULATION 1 IS A MISDEMEANOR PUNISHABLE BY FINE OF NOT MORE THAN $500 OR 6 MONTHS IMPRISONMENT, OR BOTH (HEALTH AND SAFETY CODE SECTION 24361.5).

☐ VISIBLE EMISSIONS IN VIOLATION OF REGULATION 2 SECTION 3110
FROM

☐ EMISSIONS IN VIOLATION OF REGULATION 3 SECTION

☐

ISSUED TO VICTOR BALDI TITLE OWNER

→ ADVISE US IN WRITING WITHIN 10 DAYS OF THE CORRECTIVE ACTION YOU HAVE TAKEN TO PREVENT CONTINUED OR RECURRENT VIOLATION.

X
SIGNATURE OF PERSON RECEIVING NOTICE

SIGNING THIS NOTICE IS NOT AN ADMISSION OF GUILT

Harold P. Pittard D Sept. 22, 69 0855 M
NOTICE ISSUED BY DATE TIME

☐ NOTICE ISSUED BY CERTIFIED MAIL

BAAPCD F-84 (1-69)

R– ATTACHED
GRID– KPF6

4

AN LEANDRO RENTALS
14273 WASHINGTON AVE.

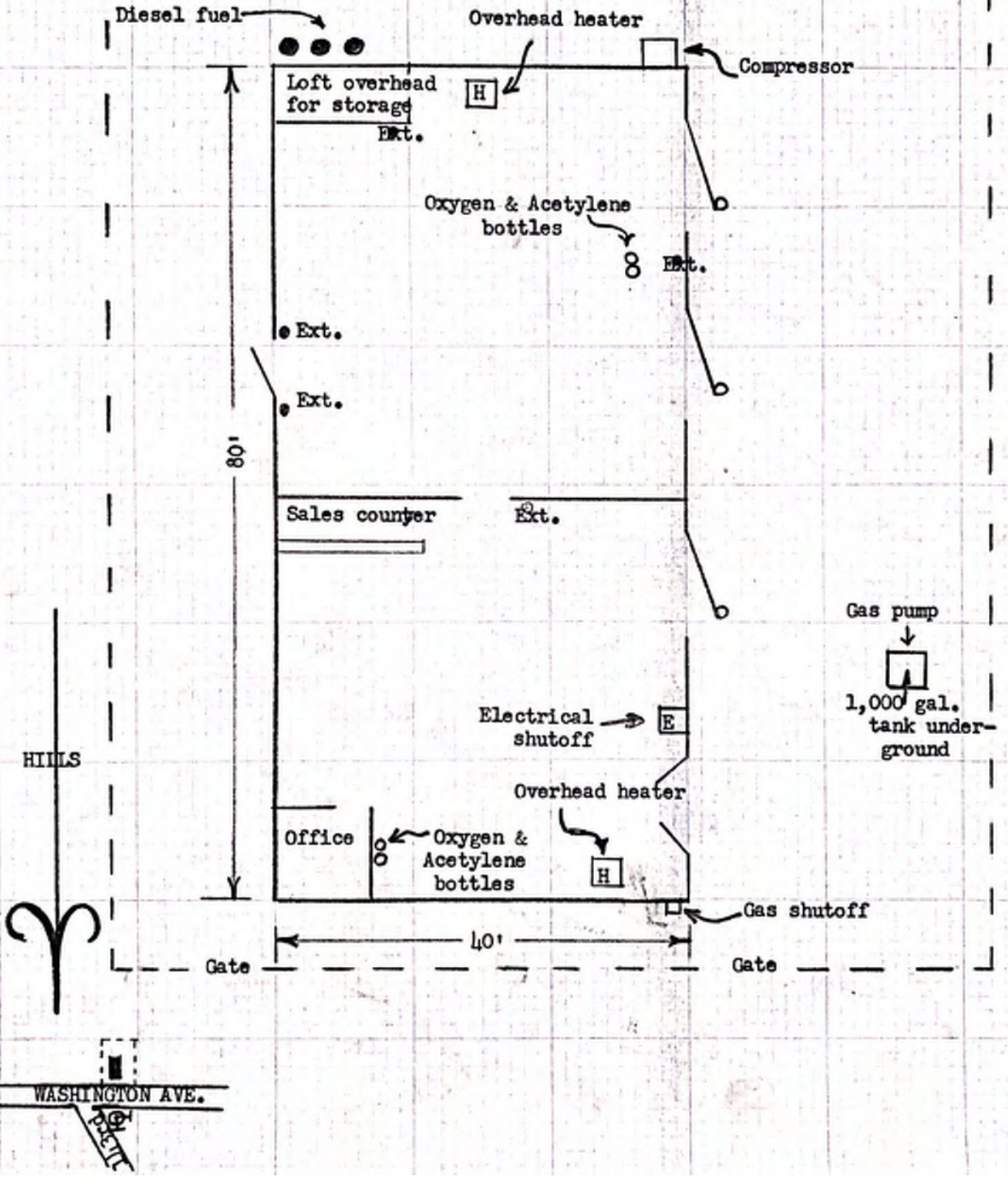
#1564
6/3/65

Building const.: Concrete block

Roof const.: Tar & gravel

Hazardous cont.: Oxygen bottles, acetylene bottles, gasoline tank, cutting & welding torch.

Exposures : South: Morgan Bros. Patios; North: Big "O" Bar; R.R. Tracks to West



SLFD- 10/62-100
Form FP-5 (1)

#1564 (I)

SAN LEANDRO FIRE DEPARTMENT INSPECTION PROCEDURE REGARDING UNDERGROUND TANK INSTALLATIONS
(Submergeable Pump)

First Inspection:

1. Tank or tanks will be inspected by the Fire Department before any back filling operations are started.
2. For the purpose of lifting and handling, "cat eyes" must be welded to tanks.
3. Inspection of condition of tanks
   a. damage to tanks
   b. any scaling or damage to protective covering of tank
4. Back fill to be sand, firmly tamped, which shall extend one (1) foot beyond the tank in all directions.

Second Inspection:

1. Inspection of piping is required before covering. A notification shall be given the Fire Chief, who shall himself or through an authorized member of the department inspect and give his approval or disapproval thereof.
2. Tank and piping to be given a hydrostatic test or a pressure test using a Mercury gauge. (Mercury gauge to be furnished by installers)

- -

Date Feb. 25, 1964 Location 14273 Washington Ave.
San Leandro Rents

Remarks in regard to this installation: (notes are also added to the plans received)

1. Full buoyancy of completely empty tanks should be calculated to see if anchorage or weight is needed to hold the tanks securely in place at the high-water table of this area.
2. Vent piping shall not terminate less than 3 feet measuring horizontally or vertically in any window or other building opening or header, and 18" above wall or highest part of building.
3. "NO SMOKING", "STOP MOTOR", signs of contrasting color shall be located so that they are visible from either side of the island.
4. Where vehicular traffic over tank is expected, as a measure of safety tanks are to be covered with reinforced concrete at least 6" in thickness which shall extend one foot beyond the outline of tanks in all directions.
5. We recommend one 15# CO^2 fire extinguisher or equal at island.
6. Approved safety shutoff valve at each dispenser.
7. Approved safety shutoff valve at each pump.
8. In order to expedite this installation, we request the representative of the company doing the work to notify the San Leandro Fire Department before starting the job and to go over the underground storage regulations.
9. Plumbing permit for tanks at Public Works Office.

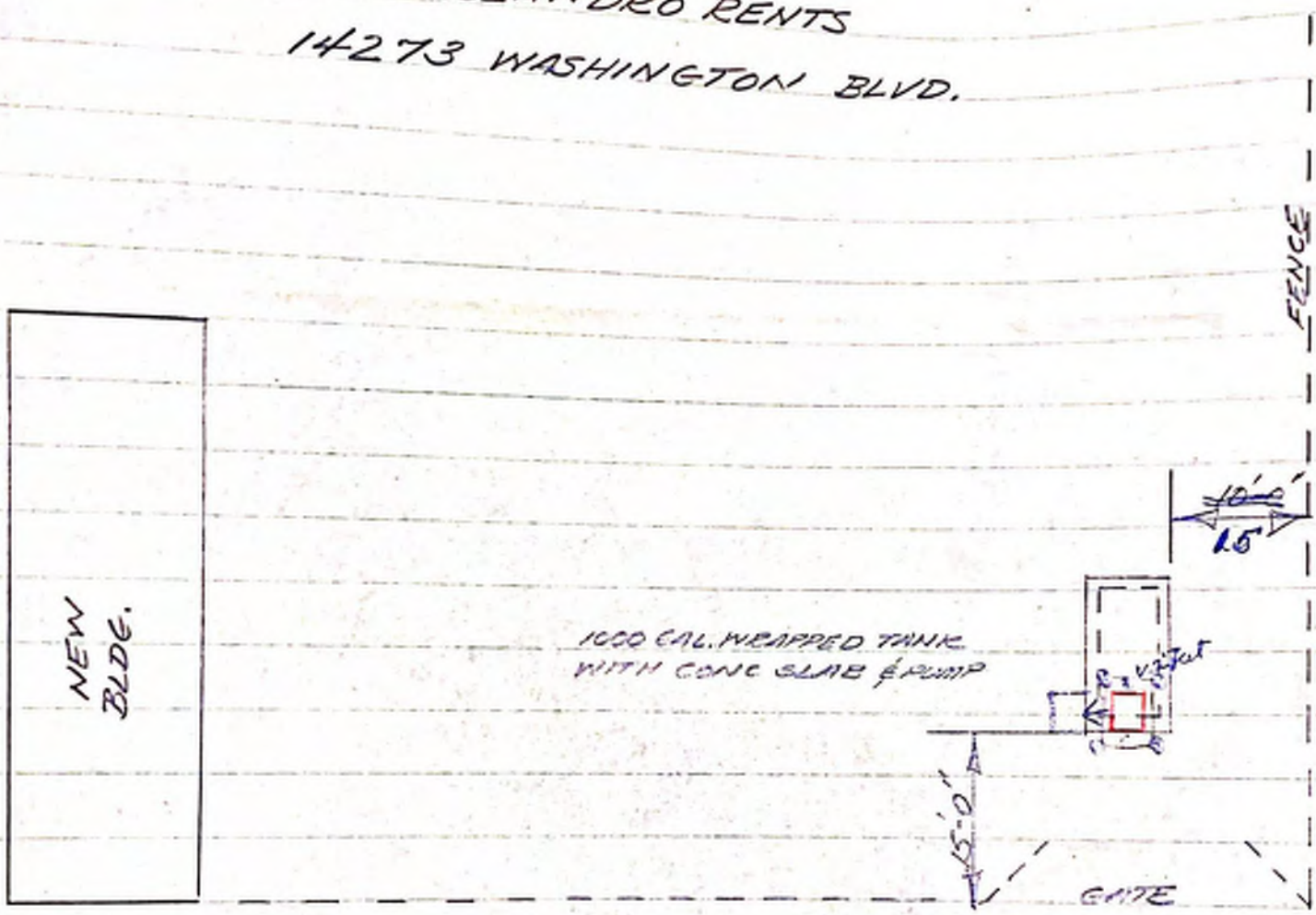
Manuel Rodriguez, Fire Chief
By Joe Neves
Joe Neves, Jr., Captain
Fire Prevention Bureau
San Leandro Fire Department

1 - 1,000 gal. gas tank

Install Guard Post as shown on plans.

OK'd J.N. OK 9/4

SAN LEANDRO RENTS
14273 WASHINGTON BLVD.



WASHINGTON

OK-R. Wilson
2-24-64

4

Form FP-6 -SLFD
5/10/65 - 1M(as)

SAN LEANDRO FIRE DEPARTMENT

Division of Fire Prevention

COMPANY INSPECTIONS

File No. 1564 ~~1944~~

Business Name San Leandro Rentals Add. 14273 Washington Ave. Phone 357-5900
Business Owner Victor D Baldi Add. 5394 - Elaine Phone LU21-0338
Emergency Contact _____ Add. _____ Phone _____

Occupancy Rental of Equipment & Tools Basement _____
1st Floor _____ 2nd Floor _____ 3rd Floor _____ 4th Floor _____
Construction Cement Block Tar & Gravel Area Sq. Ft. 3200

(a) Hazardous Contents Oxygen Bottles, Gasoline, Cutting and welding torch

(b) Heating System (Include gas shutoff here) Gas overhead, N/E Corner of building

(c) Inside Protection Foam 2½ Gal & #5 Lb. dry Chemical

(d) Exit Locations 3- one N/E corner 2- rollup on north wall

(e) Electrical (Include shutoffs) North wall inside

(f) Floor Openings None

(g) Flammable Liquids and Compressed Gas Yes, Gasoline, Diesal fuel Oxygen

(h) Housekeeping Fair

(i) Exposures Morgan Brothers patio, Big C Bar

(j) Trash/Ash Storage

(k) Hydrants 143rd & Washington Ave.

Remarks and Recommendations

Refer to:
Building Div. _____
Health Dept. _____
Elect. Div. _____
Police Dept. _____
Other _____

Inspectors Underwood, Olivera
McCormick, Pistante
Cole

Date 6/3/65

#1564

October 4, 1963

Plans checked - 14273 Washington Ave.
Truck Rental Equipment

The San Leandro Fire Department recommends the following:

Check with the Fire Department before occupancy for the number, location and type of fire extinguishers to be installed.

Capt. Joe Neves
Fire Prevention Bureau

PERMIT TO OPERATE UNDERGROUND STORAGE TANK
SAN LEANDRO FIRE DEPARTMENT

PERMIT NO. 507

FACILITY NAME San Leandro Rental Service, Inc.

ADDRESS 14273 Washington AVe.

ISSUED 2/4/91

EXPIRES JULY 1, 1995

	TANK 1	TANK 2	TANK 3	TANK 4	TANK 5	TANK 6	TANK 7	TANK 8	TANK 9	TANK 10
CAPACITY (GAL)	5,000	1,000								
CONTENT	UL	D								
DATE INSTALLED	Unk	1972								
MONITORING OPT	4	4								

POST IN A CONSPICUOUS LOCATION

ISSUED BY Michael Bakaldin
Hazardous Materials Coordinator

3. Sampling to be performed by: J. QUARLE' & ASSOC. INC. Phone No.: 895-1474

4. Laboratory services to be provided by: MCCAMPBELL ANALYTICAL

DOHS Certificate No.: #1644 Phone No.: 798-1620

5. Tank Hauler: TRIDENT TRUCKLINES, INC. EPA ID No.: 2773

Address: P.O. BOX B, GUSTINE, CA 95322 Phone No.: 209-854-3700

Destination of Tank(s): ERICKSON INCORPORATED

6. Method of inerting tank(s): DRY ICE

7. Type of explosimeter or combustible gas meter to be provided: GAS TECH

8. Tanks to be removed:

	Size	Content	Material of Construction	Age	Sample Analysis Method
Tank 1	5,000	GAS	STEEL		TPH-G-D-BTEX
Tank 2	1,000	DIESEL	STEEL		TPH-G-D-BTEX
Tank 3					
Tank 4					
Piping					

I acknowledge receipt and agree to comply with the San Leandro Fire Department Underground Storage Tank Closure Requirements. I declare under penalty of perjury that the aforementioned information is true and correct, to the best of my knowledge.

Company Name: J. QUARLE' & ASSOC. INC. Address: 620 MARINA BOULEVARD, SAN LEANDRO

Applicant's Signature Paul Quarle' Date 3-31-92

Number of Tanks Removed 2 Inspector Karl Ruscke Date 4/7/92

Reviewed By KG

Approval Date 4-1

Rejection Date _____

San Leandro Fire Department
Hazardous Materials Division
835 East 14th Street
San Leandro, CA 94577
(415) 577-3331

Rev 4/91

Date Received 3/31/92

Fees Paid 275.00

UNDERGROUND STORAGE TANK CLOSURE PLAN/PERMIT

1. Facility Name: SAN LEANDRO RENTAL Address: 14273 WASHINGTON AVENUE

   Contact Person: _____ Phone No.: 357-5900

   Generator's U.S. EPA Number: CAL 000060805

2. Contractor: HILLVIEW ENGINEERING License Type & No.: GENERAL 585828

   Address: 620 MARINA BOULEVARD, SAN LEANDRO, CA 94577

   Contact Person: JACK QUARLE' Phone No.: 895-1474

3. Sampling to be performed by: J. QUARLE' & ASSOC. INC. Phone No.: 895-1474

4. Laboratory services to be provided by: MCCAMPBELL ANALYTICAL

   DOHS Certificate No.: #1644 Phone No.: 798-1620

5. Tank Hauler: TRIDENT TRUCKLINES, INC. EPA ID No.: 2773

   Address: P.O. BOX B, GUSTINE, CA 95322 Phone No.: 209-854-3700

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	Size	Content	Material of Construction	Age	Sample Analysis Method
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Tank 3					
Tank 4					
Piping					

I acknowledge receipt and agree to comply with the San Leandro Fire Department Underground Storage Tank Closure Requirements. I declare under penalty of perjury that the aforementioned information is true and correct, to the best of my knowledge.

Company Name: J. QUARLE' & ASSOC. INC. Address: 620 MARINA BOULEVARD, SAN LEANDRO

Applicant's Signature Jack Quarle' Date 3-31-92

Number of Tanks Removed 2 Inspector Karl Buscke Date 4/7/92

SAN LEANDRO FIRE DEPARTMENT

PERMIT TO OPERATE UNDERGROUND STORAGE TANK

DATE: 3/21/90

NAME OF FACILITY
WHERE TANKS ARE LOCATED: San Leandro Rental

ADDRESS: 14273 Washington Ave.

NUMBER OF TANKS AT THIS LOCATION: # 3

FEES PAID TO CITY: $320.

FEES PAID TO STATE: ____

TANK #1: # 1 5000 Gallon Unleaded Gas tank.

TANK #2: # 2 1000 Gallon Diesel Gas tanks.

TANK #3: ____

(ADDITIONAL TANKS WILL BE LISTED ON REAR)

PERMISSION IS HEREBY GRANTED TO OPERATE THE UNDERGROUND STORAGE TANK FACILITY DESCRIBED ABOVE FOR A PERIOD OF ONE YEAR FROM THE DATE INDICATED. THIS PERMIT IS CONTINGENT UPON THE FACILITY, ITS OPERATORS AND ITS OWNERS COMPLYING WITH ALL APPLICABLE LAWS AND REGULATIONS AND MAY BE REVOKED AT ANYTIME.

ALL CHANGES IN UNDERGROUND STORAGE TANK INFORMATION MUST BE REPORTED TO THE SAN LEANDRO FIRE DEPARTMENT WITHIN 15 DAYS AND MAY REQUIRE COMPLETION OF ADDITIONAL FORMS AND PAYMENT OF ADDITIONAL FEES.

RENEWAL OF THIS PERMIT IS THE RESPONSIBILITY OF THE FACILITY'S OPERATORS. OPERATION OF AN UNDERGROUND STORAGE TANK WITHOUT A VALID PERMIT IS A VIOLATION OF BOTH STATE AND LOCAL ORDINANCE.

A COPY OF THIS PERMIT MUST BE KEPT ON FILE AT THE FACILITY

SIGNATURE: Ron Legins

(NOT VALID WITHOUT AUTHORIZED SIGNATURE)

TITLE: Fire Inspector

APPLICATION FOR PERMIT TO OPERATE
UNDERGROUND STORAGE TANK

TYPE OF PERMIT: NEW X RENEWAL _____ CHANGE OF INFORMATION _____

FACILITY NAME: SAN LEANDRO EQUIPMENT RENTAL, INC

ADDRESS: 14273 WASHINGTON AVE. SAN LEANDRO, CA 94578

KEY CONTACT: Victor Baldi Sr TELEPHONE: 357-5900

PROPERTY OWNER: SAN LEANDRO EQUIPMENT RENTAL, INC

ADDRESS: 14273 WASHINGTON AVE. SAN LEANDRO, CA 94578

TANK OWNER: SAN LEANDRO EQUIPMENT RENTAL, INC

ADDRESS: 14273 WASHINGTON AVE. SAN LEANDRO, CA 94578

LEGAL NOTIFICATIONS AND BILLING SHOULD BE DIRECTED TO:

FACILITY / PROPERTY OWNER _____ TANK OWNER _____

TANK SYSTEM INFORMATION

NUMBER OF TANKS: 3 MONITORING OPTIONS: #5

PIPING SYSTEM DESCRIPTION:

SUCTION: X PRESSURE: _____ LINE LEAK DETECTOR?(Y/N) _____

INDICATE ANY CHANGES IN TANK CONTENTS SINCE LAST PERMIT RENEWAL:

Inspection was conducted on 3/21/

****

ANY CHANGE IN THE INFORMATION REGARDING AN UNDERGROUND STORAGE TANK MUST BE REPORTED TO THE FIRE DEPARTMENT WITHIN 15 DAYS. CHANGES MAY REQUIRE THE COMPLETION OF ADDITIONAL FORMS AND PAYMENT OF ADDITIONAL FEES.

****

NAME OF APPLICANT: Victor Baldi Sr TITLE: Owner

SIGNATURE: [signature]

1. 5,000 Unleaded

2. 1,500 Diesel

CITY OF SAN LEANDRO

835 EAST 14th STREET • SAN LEANDRO, CALIFORNIA 94577

RECEIPT NO. 24924

ACCOUNT NO.

Date 3/14 19 20

Received From San Leandro Rental $ 320.00

Address 14273 Washington Ave. San Leandro CA

For (Fees for Operating Permit UGST)
for the above site

By Jamie McGhee

NOT VALID UNTIL RECEIPTED BY CASHIER

FORM 095

MOORE BUSINESS FORMS, INC.

CITY OF SAN LEANDRO

835 EAST 14th STREET SAN LEANDRO, CALIFORNIA 94577

RECEIPT NO. 19826

ACCOUNT NO. _____

THREE TANKS

CITY PERMIT
STATE PERMIT

Date SEPTEMBER 28, 1988

Received From SAN LEANDRO RENTAL SERVICE $ 308.00

Address 14273 WASHINGTON AVE SAN LEANDRO, CA. 94578

For State registration and City Permit to operate
Three (3) Underground Fuel Storage Tanks.

Check # 3047 Dated 9/22/88

By _____

NOT VALID UNTIL RECEIPTED BY CASHIER

FORM 095

MOORE BUSINESS FORMS, INC.-M

WELLS FARGO BANK
SAN LEANDRO OFFICE
SAN LEANDRO, CALIF. 94578

11-24/001
1210(8)

San Leandro Rental Service

14273 WASHINGTON AVE. • SAN LEANDRO, CALIFORNIA 94578

DATE	CHECK NUMBER
9-22-88	3047

003047

PAY TO THE ORDER OF City of San Leandro

Exactly 308. Dollars and 00 Cents

$ 308.00

⑈003047⑈ ⑆121000248⑆0121 020374⑈

HOWARD E. HARLAN & ASSOCIATES, INC.
167 WAKEFIELD DRIVE, VACAVILLE, CA 95687
(707) 448-4834 (415) 456-9746

Copy fwd to Regional Water 10/6/88

Leak Report Filed 9/14/88

September 27, 1988

Mr. Victor Baldi, Sr.
San Leandro Rental Service
14273 Washington Avenue
San Leandro, CA 94578

REPORT

Dear Mr. Baldi:

Enclosed are the test results from the precision tests we conducted on your underground tanks this past weekend. Identification of the tanks is shown on the enclosed sketch.

Tank #1, your 5000 gallon unleaded gasoline tank, shows a calculated leak rate of 0.047 gallons per hour, which is within the rate allowed by regulatory standards. This tank is certified tight.

Tank #2, the 1000-gallon diesel tank located at the pump island, produced test results showing a leak rate of 0.020 gallons per hour, which is well within regulatory limits. This tank is certified tight.

Tank #3, the 1000-gallon diesel tank located at the front gate to your yard, shows a calculated leak rate of 0.035 gallons per hour. This rate is well within regulatory limits and the tank is certified tight.

A minimal amount of water (1/2 inch) was found in Tank #1. We recommend that you take steps to keep surface water from entering the fill riser.

This report and the enclosed copies of our data sheets and level recorder charts should be all that you need to obtain renewed permits for your tanks.

If you have any questions, please call us at your convenience.

Sincerely,

Jack de Celle

Jack de Celle

JdC:ag
encl.

TANK ARRANEMENT
SAN LEADRO RENTAL SEVICE
14273 WASHINGTON AVE
SAN LEANDRO, CA

HEH 4-15-87

UNDERGROUND TANK
PRECISION LEAK TEST
DATA SHEET

FACILITY SAN LEANDRO TANK FARM OPERATOR Vic BALDI
STREET 14273 WASHINGTON BLVD TELEPHONE 357-5900
CITY SAN LEANDRO, CA 94578 INITIAL TEST INITIAL 1988
DATE 9-25-88 AMBIENT TEMP 65° F START 10:38 COMPLETION 12:38
TANK NO. #1 STARTING TEST LEVEL +38" TEST METHOD HORNER
CAPACITY 550 c MATERIAL Hi GAS WATER 1/2" INITIAL L.L. -1"
TANK DIMENSIONS: BOTTOM 122 API GRAVITY 55.7 @ 62 F
TOP 27 COEFFICIENT .000581
DIAMETER 95 TEMP CORRECTION FACTOR 2.905 gal/°F
DISPLACEMENT .025 CHART CALIBRATION 34 CALIBRATION FACTOR .000735 gal/LINE

TIME MINUTES	LEVEL START	LEVEL END	LEVEL CHANGE	TEMP START	TEMP END	DENSITY EFFECT	NET RESULT
15	93	16	-.0565	73.914	.312	-.0058	-.0506
30	89	40	-.0360	.312	.315	+.0087	-.0447
45	86	56	-.0264	.315	.313	-.0058	-.0205
60	85	53	-.0235	.313	.315	+.0058	-.0293
75	80	53	-.0198	.315	.312	-.0087	-.0110
90	96	76	-.0147	.312	.311	-.0029	-.0118
105	76	53	-.0169	.311	.310	-.0029	-.0140
120	82	60	-.0161	.310	.308	-.0058	-.0103

THIS TEST AND THESE CALCULATIONS FULLY COMPLY WITH NFPA 329 AND CALIFORNIA REGULATIONS. HOWEVER, THESE CALCULATIONS ONLY REPRESENT DATA CORRELATION AND THE ACTUAL LEAK RATE MAY DIFFER SIGNIFICANTLY DUE TO VARIABLES BEYOND THE TESTER'S CONTROL.

CALCULATED LEAK RATE -.047 GPH CERTIFIED CORRECT H E Harlan 9/25/88

HOWARD E. HARLAN & ASSOCIATES, INC.

UNDERGROUND TANK
PRECISION LEAK TEST
DATA SHEET

FACILITY SAN LEANDRO TOOL RENTAL OPERATOR VIC BALOI
STREET 14273 WASHINGTON BLVD TELEPHONE 357-5900
CITY SAN LEANDRO, CA 94578 INITIAL TEST INITIAL 1988
DATE 9-25-88 AMBIENT TEMP 70°F START 12:46 COMPLETION 14:46
TANK NO. 2 STARTING TEST LEVEL +49" TEST METHOD HORNER
CAPACITY 1000 MATERIAL DIESEL WATER NONE INITIAL L.L. -7"
TANK DIMENSIONS: BOTTOM 126" API GRAVITY 32.8 @ 66 F
TOP 80" COEFFICIENT .000446
DIAMETER 46" TEMP CORRECTION FACTOR .446 gal/°F
DISPLACEMENT .025 CHART CALIBRATION 47 CALIBRATION FACTOR .000531

TIME MINUTES	LEVEL START	LEVEL END	LEVEL CHANGE	TEMP START	TEMP END	DENSITY EFFECT	NET RESULT
15	78	71	-.0037	70.779	.774	-.0022	-.0015
30	71	65	-.0031	.774	.765	-.0040	+.0009
45	65	59	-.0031	.765	.758	-.0031	.0000
60	59	54	-.0026	.758	.775	+.0075	-.0101
75	54	50	-.0021	.775	.778	+.0013	-.0034
90	50	43	-.0037	.778	.784	+.0026	-.0063
105	43	34	-.0047	.784	.792	+.0035	-.0082
120	34	32	-.0010	.792	.795	+.0019	-.0029

THIS TEST AND THESE CALCULATIONS FULLY COMPLY WITH NFPA 329 AND CALIFORNIA REGULATIONS. HOWEVER, THESE CALCULATIONS ONLY REPRESENT DATA CORRELATION AND THE ACTUAL LEAK RATE MAY DIFFER SIGNIFICANTLY DUE TO VARIABLES BEYOND THE TESTER'S CONTROL.

CALCULATED LEAK RATE -.020 GPH CERTIFIED CORRECT H E Harlan 9-25-88

HOWARD E. HARLAN & ASSOCIATES, INC.

UNDERGROUND TANK
PRECISION LEAK TEST
DATA SHEET

FACILITY SAN LEANDRO TOOL RENTAL OPERATOR VIC BALDI
STREET 14277 WASHINGTON BLVD TELEPHONE 357-5900
CITY SAN LEANDRO, CA 94578 INITIAL TEST INITIAL 1988
DATE 9-26-88 AMBIENT TEMP 72 F START 09:57 COMPLETION 11:57
TANK NO. #3 STARTING TEST LEVEL + 46" TEST METHOD HORNER
CAPACITY 1000 MATERIAL DIESEL WATER NONE INITIAL L.L. -1"
TANK DIMENSIONS: BOTTOM 75" API GRAVITY 32.8 @ 66 F
TOP 30" COEFFICIENT .000446
DIAMETER 45" TEMP CORRECTION FACTOR .445 gal/°F
DISPLACEMENT .025 CHART CALIBRATION 47 CALIBRATION FACTOR .000531 gal/in

TIME MINUTES	LEVEL START	LEVEL END	LEVEL CHANGE	TEMP START	TEMP END	DENSITY EFFECT	NET RESULT
15	83	71	-.0063	74.444	.468	+.3137	-.0170
30	71	60	-.0058	.468	.494	+.0115	-.0173
45	60	51	-.0047	.494	.505	+.0049	-.0096
60	51	41	-.0053	.505	.512	+.0031	-.0084
75	83	73	-.0053	.512	.520	+.0035	-.0088
90	73	63	-.0053	.520	.526	+.0026	-.0079
105	63	51	-.0063	.526	.533	+.0031	-.0094
120	51	40	-.0058	.533	.540	+.0031	-.0089

THIS TEST AND THESE CALCULATIONS FULLY COMPLY WITH NFPA 329 AND CALIFORNIA REGULATIONS. HOWEVER, THESE CALCULATIONS ONLY REPRESENT DATA CORRELATION AND THE ACTUAL LEAK RATE MAY DIFFER SIGNIFICANTLY DUE TO VARIABLES BEYOND THE TESTER'S CONTROL.

CALCULATED LEAK RATE -.035 GPH CERTIFIED CORRECT H E Harlan 9-26-88

HOWARD E. HARLAN & ASSOCIATES, INC.

[redacted] [redacted]

California Environmental Reporting System (CERS) — Business Owner Operator

Facility/Site

Apollo Motorhome Holidays
14273 Washington Ave
San Leandro, CA 94578

CERS ID
10159957

Submittal Status

Submitted on 6/20/2018 by *C. Thompson* of Apollo Motorhome Holidays (San Leandro, CA)
Submittal was *Accepted*; Processed on 6/20/2018 by *Tiffany Treece* for San Leandro City

Identification

Apollo Motorhome Holidays

Operator Phone	Business Phone	Business Fax	Beginning Date	Ending Date
(510) 614-8224	(510) 614-8224	(510) 614-8264		

Dun & Bradstreet	SIC Code	Primary NAICS
	7519	

Facility/Site Mailing Address

14273 Washington Ave
San Leandro, CA 94578

Primary Emergency Contact

~~Corey Thompson~~ Manny
Title Asst. Branch Manager

Business Phone	24-Hour Phone	Pager Number
(510) 564-8485	(510) 229-0070	n/a

Owner

Luke & Karl Trouchet
(510) 614-8224
14273 Washington Ave
San Leandro, CA 94578

Secondary Emergency Contact

Alex
Title
VMO

Business Phone	24-Hour Phone	Pager Number
	(510) 229-0070	

Billing Contact

Maureen. R.
(510) 614-8224 sanfrancisco@apollorv.com
14273 Washington Ave
San Leandro, CA 94578

Environmental Contact

~~Corey Thompson~~
(510) 564-8485 c.thompson@apollorv.com
14273 Washington Ave
San Leandro, CA 94578

Name of Signer	Signer Title	Document Preparer
Corey Thompson	Branch Manager	Corey Thompson

Additional Information

Locally-collected Fields

Some or all of the following fields may be required by your local regulator(s).

Property Owner

BALDI VICTOR D & BETTY M TRS
Phone
(925) 454-0425
Mailing Address
5395 BLACKHAWK DR
DANVILLE, CA 94506

Assessor Parcel Number (APN)
0778 1222 00619
Number of Employees
6
Facility ID
01-007-101003

California Environmental Reporting System (CERS) — Business Activities

Site Identification

Apollo Motorhome Holidays
14273 Washington Ave
San Leandro, CA 94578
County
Alameda

CERS ID
10159957
EPA ID Number

Submittal Status

Submitted on 6/20/2018 by *C. Thompson* of Apollo Motorhome Holidays (San Leandro, CA)
Submittal was *Accepted*; Processed on 6/20/2018 by *Tiffany Treece* for San Leandro City

Hazardous Materials

Does your facility have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or is regulated under more restrictive inventory local reporting requirements (shown below if present); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	Yes

Underground Storage Tank(s) (UST)

Does your facility own or operate underground storage tanks?	No

Hazardous Waste

Is your facility a Hazardous Waste Generator?	No
Does your facility treat hazardous waste on-site?	No
Is your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	No
Does your facility consolidate hazardous waste generated at a remote site?	No
Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site?	No
Does your facility generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month, or accumulate at any time, 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate or accumulate at any time more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste.	No
Is your facility a Household Hazardous Waste (HHW) Collection site?	No

Excluded and/or Exempted Materials

Does your facility recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	No
Does your facility own or operate ASTs above these thresholds? Store greater than 1,320 gallons of petroleum products (new or used) in aboveground tanks or containers.	No
Does your facility have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)?	No

Additional Information

No additional comments provided.

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. Facility Name: **Apollo Motorhome Holidays**
Apollo Motorhome Holidays
14273 Washington Ave, San Leandro 94578

Chemical Location: **AST Yard**

CERS ID: **10159957**
Facility ID: **01-007-101003**
Status: **Submitted on 6/20/2018 11:09 AM**

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 2.1 - Flammable Gases Flammable Gas	**Liquefied Petroleum Gas (lpg)** CAS No: 74-98-6 Map: 1 Grid: D3	**Cu. Feet** State: Gas Type: Pure	**17789** Storage Container: Aboveground Tank Days on Site: 365	**17789**	9000 Pressure: > Ambient Temperature: < Ambient	Waste Code:	- Physical Flammable - Physical Gas Under Pressure				

Emergency Response/Contingency Plan

The following items are elements of a comprehensive emergency response/contingency plan that meets state requirements. Please ensure that your present plan or the one that you will prepare has all the elements listed below. Small facilities with simple operations may complete the plan below to comply with the requirement for a written emergency response plan. Please submit a copy of this plan or your present plan with the HMBP.

I. Facility Information:

Facility Name: Apollo Motorhomes	Phone: 510-614-8224
Address: 14273 Washington Ave.	
City: San Leandro	Zip: 94578

II. Emergency Coordinators:

Primary Coordinator	Secondary Coordinator
Name: Joe Silveira	Name:
Title: Branch Manager	Title:
Work Phone: 510-614-8224	Work Phone:
After hours Phone: 510-229-0070	After hours Phone:
Pager: _____	Pager:

III. Emergency Telephone Numbers and Arrangements:

The emergency coordinator shall immediately notify the following whenever a release, fire, or explosion threatens human health or the environment.

Agency	Phone
Fire Department	911
State Office of Emergency Services (OES)	1-800-852-7550
Hospital/Medical Center (if injuries)	
CUPA Contact: San Leandro Environmental Services Div.	(510) 577-3401
Waste Water Treatment Facility (if to sewer)	
Hazardous Waste Contractor (if clean up needed)	
Other agencies:	

IV. Arrangements: (Please check one box.)

☒ We have no formalized written agreements with any emergency response agency or contractor.

☐ We have formalized written agreements with _____

Telephone:_____ for emergency response.

Date: 5-29-12

V. Emergency Equipment Inventory Table

Equipment Category	Equipment Type	Location *	Description**
Personal Protective Equipment, Safety Equipment, First Aid Equipment	Chemical Protective Boots		
	Chemical Protective Gloves		
	Safety Glasses/Goggles/Face shields	✓	
	Chemical Protective Clothing		
	Hard Hats		
	Chemical Monitoring Equipment (describe)		
	First Aid Kits	✓	
	Eye Wash Stations	✓	
	Safety Showers		
	Cartridge Respirators and Cartridges (describe)		
	Self-Contained Breathing Apparatus (SCBA)		
	Other (describe)		
Fire Extinguishing Systems	Fire Extinguishers	✓	
	Automatic Fire Systems		
	Fire Alarm Boxes		
Spill Control Equipment, Decontamination Equipment	Absorbents, Neutralizers (describe)	✓	
	Shovels/Brooms/Squeegees	✓	
	Overpack drum/Spill drum		
	Berms/Dikes (describe)		
	Decontamination Equipment (describe)		
	Gas cylinder leak repair kits (describe)		
	Other (describe)		
Communications and Alarm Systems	Telephones	✓	
	Intercoms/PA systems	✓	
	Portable 2 way radios		
	UST leak detection monitors		
	Chemical alarms. (describe)		
Additional Equipment (Use additional pages if needed)			

* If appropriate, use the location code(s) from your Hazardous Materials Business Plan.

** Describe the equipment and its capabilities. If applicable, specify any testing/maintenance procedures/intervals. Attach additional pages, numbered appropriately, if needed.

Date: 5-29-12

VI. Evacuation Information:

Evacuation Announcement	___Bell ✓PA System ___Horn ✓Shouting Other_____
Evacuation Route	✓Map Other_____
Assembly Area	Location: Behind Wash Bay
Re-entry Procedures	

VII. Emergency Procedures:

Emergency Coordinator Responsibilities:

1. Whenever there is an imminent or actual emergency situation such as an explosion, fire, or release, the emergency coordinator *(or his/her designee when the emergency coordinator is on call)* shall:

a. Identify the character, exact source, amount, and aerial extent of any released hazardous materials.

b. Assess possible hazards to human health or the environment that may result from the explosion, fire, or release. This assessment must consider both direct and indirect effects *(e.g. the effects of any toxic, irritating, or asphyxiating gases that are generated, the effects of any hazardous surface water run-off from water or chemical agents used to control fire, etc.)*.

c. Activate internal facility alarms or communications systems, where applicable, to notify all facility personnel.

d. Notify appropriate local authorities *(i.e., call 911)*.

e. Notify the State Office of Emergency Services at 1-800-852-7550.

f. Monitor for leaks, pressure build-up, gas generation, or ruptures in valves, pipes, or other equipment shut down in response to the incident.

g. Take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous materials at the facility.

2. Before facility operations are resumed in areas of the facility affected by the incident, the emergency coordinator shall:

a. Provide for proper storage and disposal of recovered waste, contaminated soil or surface water, or any other material that results from a explosion, fire, or release at the facility.

b. Ensure that no material that is incompatible with the released material is transferred, stored, or disposed of in areas of the facility affected by the incident until cleanup procedures are completed.

c. Ensure that all emergency equipment is cleaned, fit for its intended use, and available for use.

d. Notify the Cal/EPA's Department of Toxic Substances Control and the City of San Leandro–Environmental Services Division that the facility is in compliance with requirements 2-a and 2-b, above.

Special site specific procedures:

Emergency	Response Action
Hazardous Material & Hazardous Waste Spills/Releases:	911
Fire	911
Explosion	911
Earthquake (identify areas requiring immediate inspection)	LPG Tank and Empty Fuel Tank Waste Storage
Other	

Date: 5-29-12

EMPLOYEE TRAINING PLAN

The HMBP must include a training plan that is reasonable and appropriate for the size of the business and the nature of the hazardous materials/wastes its employees handle. The training program shall take into account the responsibilities of the employees and it shall include provisions for ensuring that all personnel receive initial and refresher training.

The following list of training requirements and training records are elements of a comprehensive emergency response training plan that meets state requirements. Please ensure that your present plan or the one that you will prepare has all the elements listed below. Small facilities with simple operations may complete the plan below to comply with the requirement for a written emergency response plan. Please submit a copy of this plan or your present plan with the HMBP.

Indicate those elements covered by your emergency response plan by marking the appropriate boxes in the left column.

	All employees are trained to do the following procedures, as appropriate:
☑	1. Initiate, activate, or recognize internal alarms and other emergency announcements.
☑	2. Notify internal or on-site emergency responders listed in the emergency response/contingency plan.
☑	3. Notify agencies listed in the emergency response/contingency plan.
☑	4. Locate and review contents of written emergency response/contingency plan.
☑	5. Initiate, conduct, or follow evacuation procedures as described in the emergency response/contingency plan.

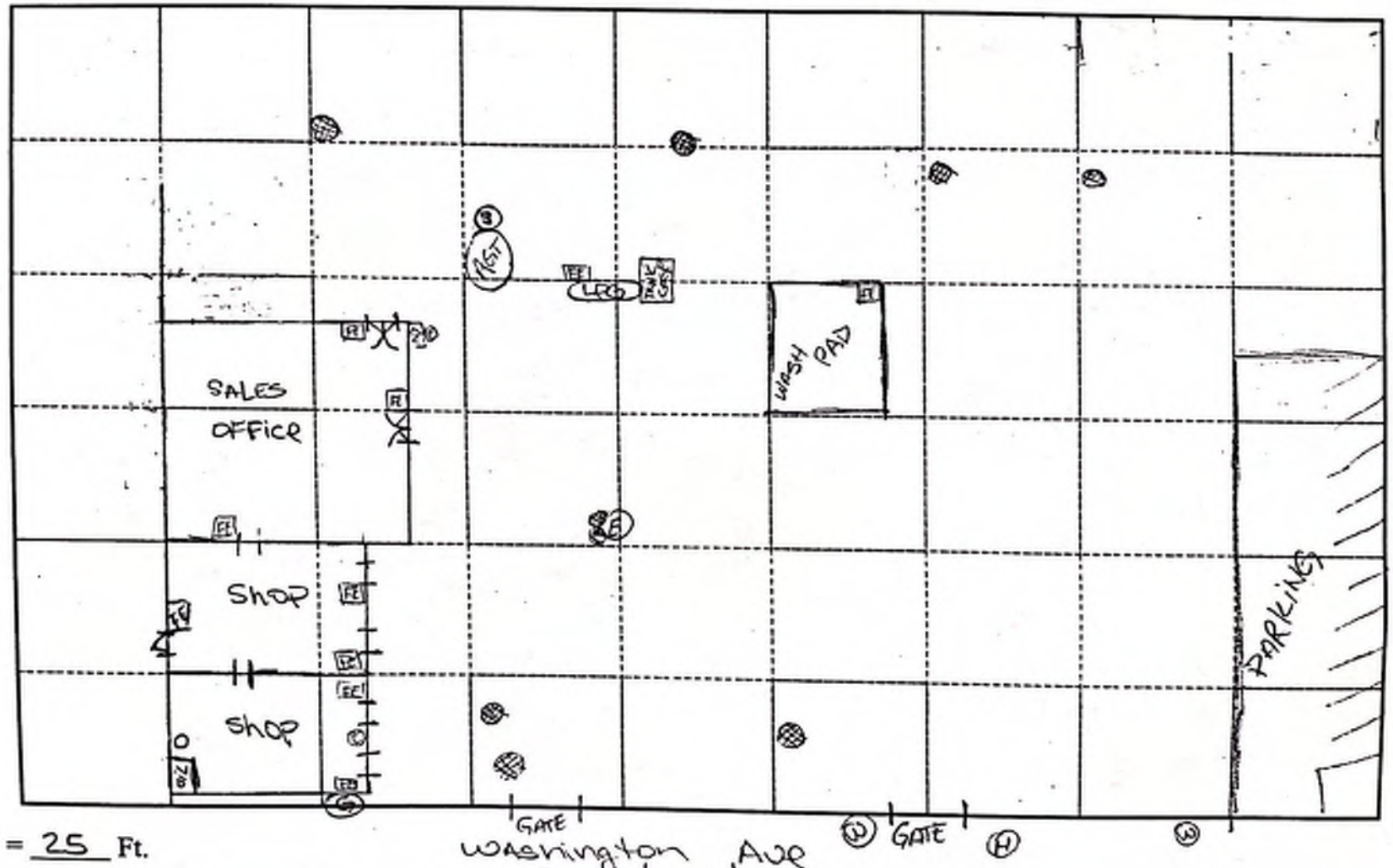
	Hazardous materials/waste handlers are additionally trained in the following subjects:
☑	1. Safe methods for handling and storage of hazardous materials and hazardous waste.
☑	2. Locations and proper use of personal protective equipment.
☑	3. Locations and proper use of fire and spill control equipment.
☑	4. Specific hazards of each chemical or waste to which they may be exposed including pathways of exposure. (i.e. skin absorption, inhalation, ingestion, or radiation)
☑	5. Follow emergency procedures for chemical/waste spills, earthquake, fire, and/or medical emergencies as described in the emergency response/contingency plan.
☑	6. Hazardous waste handlers/managers are also trained annually in all aspects of hazardous waste management specific to their job duties (e.g. accumulation time, labeling, uniform hazardous waste manifests, container inspections, storage area inspections, etc.)

	Members of the Emergency Response Team are additionally trained for the following activities: *[29CFR 1910.120 (p)(8)(iii)]*
☐	1. Personnel rescue procedures.
☐	2. Shutdown of operations.
☐	3. Liaison with emergency response agencies.
☐	4. Use, maintenance, and replacement of emergency response equipment.
☐	5. Emergency response drills are conducted, at least *[specify frequency]* [ ] times a year.
☐	6. Refresher training provided at least annually.

	Employee training and other records maintained at the facility. These include the following: *(Note: The following list does not necessarily include every type of record required to be maintained by your facility.)*
☑	1. Training records for each employee (date and duration of training, subject matter covered, instructor, etc.).
☑	2. Training records of current and former employees. *(Training records retained until facility closure for all current employees. Training records are retained for at least 3 years after the employee's termination date for all former employees)*
☑	3. Description of introductory and continuing training programs for each employee classification.
☑	4. Current emergency response, contingency, and/or spill response plan (for underground and/or aboveground tanks)
☑	5. Description and documentation of emergency response drills.
☑	6. Reportable and/or recordable hazardous material/waste accidental release records.
☑	7. Hazardous material/waste storage area inspection records. *(At least weekly for hazardous waste areas.)*
☑	8. Hazardous waste tanks daily inspection records.
☑	9. Inspection procedures for identified earthquake sensitive areas and systems in the facility.

5/29/12

Facility Site Map/Storage Plan	Business Name: Apollo	Site Address: 14273 Washington Ave	Map #: 1



Scale: 1" = 25 Ft.

- STORM DRAINS
- FE Fire ext.
- WO Water shut off
- H Hydrant
- E Electrical SHUT OFF

Rev. 4/00

City of San Leandro
Environmental Services Section
Hazardous Materials and Waste (CUPA) Registration
March 1, 2019 - February 28, 2020

Facility: Apollo Motorhome Holidays
Address: 14273 Washington Av

Customer #: 21133
Fees Paid: $296.00
Date Paid: 3/12/19

You are currently registered for the following CUPA programs:

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		
Hazardous Waste Generator Class			N/A
Number of Underground Storage Tanks			0
On-Site Hazardous Waste Treatment Registration			
Accidental Release Program Facility Registration			No
Above Ground Petroleum Storage Tank Program Registration			No

CESQG: (Conditionally Exempt Small Quantity Generator) - generates less than 100 kilograms (27 gallons or 220 pounds) of hazardous waste per month.

SQG: (Small Quantity Generator) - generates more than 100 kilograms (27 gallons or 220 pounds), but less than 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

LQG: (Large Quantity Generator) - generates more than or equal to 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

PBR: Permit by Rule **CA**: Conditionally Authorized **CE**: Conditionally Exempt

Quantity Range 1: Less than 500 lbs, 55 gal, or 2,000 cubic feet at STP
Quantity Range 2: 500 lbs, 55 gal, or 2,000 cu ft @ STP to 5,000 lbs, 550 gallons, or 20,000 cu ft @ STP
Quantity Range 3: 5,000 lbs, 550 gal, or 20,000 cu ft @ STP to 50,000 lbs, 5,500 gal, or 200,000 cu ft @ STP
Quantity Range 4: 50,000 lbs, 5,500 gal, or 200,000 cu ft @STP to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft@ STP
Quantity Range 5: Greater than or equal to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft @ STP

Mailed to:

Apollo Motorhome Holidays
Attn: Corey Thompson
14273 Washington Av,
San Leandro, CA 94578

City of San Leandro
Environmental Services Section

Hazardous Materials and Waste (CUPA) Fee Summary

March 1, 2019 - February 28, 2020

Facility: Apollo Motorhome Holidays Fiscal Year: 2019

Address: 14273 Washington Av Customer #: 21133

City of San Leandro Annual Permit/Registration Fees	
Hazardous Material Storage Fee:	$247.00
Underground Storage Tank Fee:	$0.00
Hazardous Waste Generator Fee:	$0.00
On-Site Hazardous Waste Treatment Fee:	$0.00
CalARP Fee:	$0.00
APSA Fee:	$0.00
State of California Annual Service Fees	
State Service Fee for each Facility:	$49.00
State Underground Storage Tank Service Fee:	$0.00
State Accidental Release Program Service Fee:	$0.00
State APSA fee:	$0.00
Total Amount Due:	**$296.00**

HAZARDOUS MATERIALS AND WASTE PROGRAM REGISTRATION INFORMATION

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		

Hazardous Waste Generator Class	No
Number of Underground Storage Tanks	0
On-Site Hazardous Waste Treatment Registration	N/A
Accidental Release Program Facility Registration	N/A
Above Ground Petroleum Storage Tank Program Registration (APSA)	No

City of San Leandro
Environmental Services Section
Hazardous Materials and Waste (CUPA) Registration
March 1, 2018 - February 28, 2019

Facility: Apollo Motorhomes
Address: 14273 Washington Av

Customer #: 21133
Fees Paid: $288.00
Date Paid: 2/21/18

You are currently registered for the following CUPA programs:

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		
Hazardous Waste Generator Class			N/A
Number of Underground Storage Tanks			0
On-Site Hazardous Waste Treatment Registration			
Accidental Release Program Facility Registration			No
Above Ground Petroleum Storage Tank Program Registration			No

CESQG: (Conditionally Exempt Small Quantity Generator) - generates less than 100 kilograms (27 gallons or 220 pounds) of hazardous waste per month.

SQG: (Small Quantity Generator) - generates more than 100 kilograms (27 gallons or 220 pounds), but less than 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

LQG: (Large Quantity Generator) - generates more than or equal to 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

PBR: Permit by Rule **CA**: Conditionally Authorized **CE**: Conditionally Exempt

Quantity Range 1: Less than 500 lbs, 55 gal, or 2,000 cubic feet at STP
Quantity Range 2: 500 lbs, 55 gal, or 2,000 cu ft @ STP to 5,000 lbs, 550 gallons, or 20,000 cu ft @ STP
Quantity Range 3: 5,000 lbs, 550 gal, or 20,000 cu ft @ STP to 50,000 lbs, 5,500 gal, or 200,000 cu ft @ STP
Quantity Range 4: 50,000 lbs, 5,500 gal, or 200,000 cu ft @STP to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft@ STP
Quantity Range 5: Greater than or equal to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft @ STP

Mailed to:

Apollo Motorhomes
Attn: Lynn Rumble
14273 Washington Av,
San Leandro, CA 94578

City of San Leandro
Environmental Services Section

Hazardous Materials and Waste (CUPA) Fee Summary

March 1, 2018 - February 28, 2019

Facility: Apollo Motorhomes Fiscal Year: 2018

Address: 14273 Washington Av Customer #: 21133

City of San Leandro Annual Permit/Registration Fees	
Hazardous Material Storage Fee:	$239.00
Underground Storage Tank Fee:	$0.00
Hazardous Waste Generator Fee:	$0.00
On-Site Hazardous Waste Treatment Fee:	$0.00
CalARP Fee:	$0.00
APSA Fee:	$0.00
State of California Annual Service Fees	
State Service Fee for each Facility:	$49.00
State Underground Storage Tank Service Fee:	$0.00
State Accidental Release Program Service Fee:	$0.00
State APSA fee:	$0.00
Total Amount Due:	**$288.00**

HAZARDOUS MATERIALS AND WASTE PROGRAM REGISTRATION INFORMATION

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		

Hazardous Waste Generator Class	No
Number of Underground Storage Tanks	0
On-Site Hazardous Waste Treatment Registration	N/A
Accidental Release Program Facility Registration	N/A
Above Ground Petroleum Storage Tank Program Registration (APSA)	No

City of San Leandro
Environmental Services Section
Hazardous Materials and Waste (CUPA) Registration
March 1, 2017 - February 28, 2018

Facility: Apollo Motorhomes
Address: 14273 Washington Av

Customer #: 21133
Fees Paid: $267.00
Date Paid: 1/31/17

You are currently registered for the following CUPA programs:

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		
Hazardous Waste Generator Class			N/A
Number of Underground Storage Tanks			0
On-Site Hazardous Waste Treatment Registration			
Accidental Release Program Facility Registration			No
Above Ground Petroleum Storage Tank Program Registration			No

CESQG: (Conditionally Exempt Small Quantity Generator) - generates less than 100 kilograms (27 gallons or 220 pounds) of hazardous waste per month.

SQG: (Small Quantity Generator) - generates more than 100 kilograms (27 gallons or 220 pounds), but less than 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

LQG: (Large Quantity Generator) - generates more than or equal to 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

PBR: Permit by Rule **CA**: Conditionally Authorized **CE**: Conditionally Exempt

Quantity Range 1: Less than 500 lbs, 55 gal, or 2,000 cubic feet at STP
Quantity Range 2: 500 lbs, 55 gal, or 2,000 cu ft @ STP to 5,000 lbs, 550 gallons, or 20,000 cu ft @ STP
Quantity Range 3: 5,000 lbs, 550 gal, or 20,000 cu ft @ STP to 50,000 lbs, 5,500 gal, or 200,000 cu ft @ STP
Quantity Range 4: 50,000 lbs, 5,500 gal, or 200,000 cu ft @STP to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft@ STP
Quantity Range 5: Greater than or equal to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft @ STP

Mailed to:
Apollo Motorhomes
Attn: Lynn Rumble
14273 Washington Av,
San Leandro, CA 94578

City of San Leandro
Environmental Services Section

Hazardous Materials and Waste (CUPA) Fee Summary

March 1, 2017 - February 28, 2018

Facility: Apollo Motorhomes Fiscal Year: 2017

Address: 14273 Washington Av Customer #: 21133

City of San Leandro Annual Permit/Registration Fees	
Hazardous Material Storage Fee:	$232.00
Underground Storage Tank Fee:	$0.00
Hazardous Waste Generator Fee:	$0.00
On-Site Hazardous Waste Treatment Fee:	$0.00
CalARP Fee:	$0.00
APSA Fee:	$0.00
State of California Annual Service Fees	
State Service Fee for each Facility:	$35.00
State Underground Storage Tank Service Fee:	$0.00
State Accidental Release Program Service Fee:	$0.00
State APSA fee:	$0.00
Total Amount Due:	**$267.00**

HAZARDOUS MATERIALS AND WASTE PROGRAM REGISTRATION INFORMATION

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		

Hazardous Waste Generator Class	No
Number of Underground Storage Tanks	0
On-Site Hazardous Waste Treatment Registration	N/A
Accidental Release Program Facility Registration	N/A
Above Ground Petroleum Storage Tank Program Registration (APSA)	No

City of San Leandro
Environmental Services Section
Hazardous Materials and Waste (CUPA) Registration
March 1, 2016 - February 28, 2017

Facility: Apollo Motorhomes
Address: 14273 Washington Av

Customer #: 21133
Fees Paid: $261.00
Date Paid: 2/5/16

You are currently registered for the following CUPA programs:

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		
Hazardous Waste Generator Class			N/A
Number of Underground Storage Tanks			0
On-Site Hazardous Waste Treatment Registration			
Accidental Release Program Facility Registration			No
Above Ground Petroleum Storage Tank Program Registration			No

CESQG: (Conditionally Exempt Small Quantity Generator) - generates less than 100 kilograms (27 gallons or 220 pounds) of hazardous waste per month.

SQG: (Small Quantity Generator) - generates more than 100 kilograms (27 gallons or 220 pounds), but less than 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

LQG: (Large Quantity Generator) - generates more than or equal to 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

PBR: Permit by Rule **CA**: Conditionally Authorized **CE**: Conditionally Exempt

Quantity Range 1: Less than 500 lbs, 55 gal, or 2,000 cubic feet at STP
Quantity Range 2: 500 lbs, 55 gal, or 2,000 cu ft @ STP to 5,000 lbs, 550 gallons, or 20,000 cu ft @ STP
Quantity Range 3: 5,000 lbs, 550 gal, or 20,000 cu ft @ STP to 50,000 lbs, 5,500 gal, or 200,000 cu ft @ STP
Quantity Range 4: 50,000 lbs, 5,500 gal, or 200,000 cu ft @STP to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft@ STP
Quantity Range 5: Greater than or equal to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft @ STP

Mailed to:

Apollo Motorhomes
Attn: Lynn Rumble
14273 Washington Av,
San Leandro, CA 94578

City of San Leandro
Environmental Services Section

Hazardous Materials and Waste (CUPA) Fee Summary

March 1, 2016 - February 28, 2017

Facility: Apollo Motorhomes Fiscal Year: 2016

Address: 14273 Washington Av Customer #: 21133

City of San Leandro Annual Permit/Registration Fees	
Hazardous Material Storage Fee:	$226.00
Underground Storage Tank Fee:	$0.00
Hazardous Waste Generator Fee:	$0.00
On-Site Hazardous Waste Treatment Fee:	$0.00
CalARP Fee:	$0.00
APSA Fee:	$0.00
State of California Annual Service Fees	
State Service Fee for each Facility:	$35.00
State Underground Storage Tank Service Fee:	$0.00
State Accidental Release Program Service Fee:	$0.00
State APSA fee:	$0.00
Total Amount Due:	**$261.00**

HAZARDOUS MATERIALS AND WASTE PROGRAM REGISTRATION INFORMATION

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		

Hazardous Waste Generator Class	No
Number of Underground Storage Tanks	0
On-Site Hazardous Waste Treatment Registration	N/A
Accidental Release Program Facility Registration	N/A
Above Ground Petroleum Storage Tank Program Registration (APSA)	No

City of San Leandro
Environmental Services Division

Hazardous Materials and Waste (CUPA) Registration

March 1, 2015 - February 28, 2016

Facility: Apollo Motorhomes
Address: 14273 Washington Av

Customer #: 21133
Fees Paid: $255.00
Date Paid: 2/20/15

You are currently registered for the following CUPA programs:

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		
Hazardous Waste Generator Class			SQG
Number of Underground Storage Tanks			0
On-Site Hazardous Waste Treatment Registration			
Accidental Release Program Facility Registration			No
Above Ground Petroleum Storage Tank Program Registration			No

CESQG: (Conditionally Exempt Small Quantity Generator) - generates less than 100 kilograms (27 gallons or 220 pounds) of hazardous waste per month.

SQG: (Small Quantity Generator) - generates more than 100 kilograms (27 gallons or 220 pounds), but less than 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

LQG: (Large Quantity Generator) - generates more than or equal to 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

PBR: Permit by Rule **CA**: Conditionally Authorized **CE**: Conditionally Exempt

Quantity Range 1: Less than 500 lbs, 55 gal, or 2,000 cubic feet at STP
Quantity Range 2: 500 lbs, 55 gal, or 2,000 cu ft @ STP to 5,000 lbs, 550 gallons, or 20,000 cu ft @ STP
Quantity Range 3: 5,000 lbs, 550 gal, or 20,000 cu ft @ STP to 50,000 lbs, 5,500 gal, or 200,000 cu ft @ STP
Quantity Range 4: 50,000 lbs, 5,500 gal, or 200,000 cu ft @STP to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft@ STP
Quantity Range 5: Greater than or equal to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft @ STP

Mailed to:
Apollo Motorhomes
Attn: Joe Silveira
14273 Washington Av,
San Leandro, CA 94578

City of San Leandro
Environmental Services Division

Hazardous Materials and Waste (CUPA) Fee Summary

March 1, 2015 - February 28, 2016

Facility: Apollo Motorhomes Fiscal Year: 2015

Address: 14273 Washington Av Customer #: 21133

City of San Leandro Annual Permit/Registration Fees	
Hazardous Material Storage Fee:	$220.00
Underground Storage Tank Fee:	$0.00
Hazardous Waste Generator Fee:	$306.00
On-Site Hazardous Waste Treatment Fee:	$0.00
CalARP Fee:	$0.00
APSA Fee	$0.00
State of California Annual Service Fees	
State Service Fee for each Facility:	$35.00
State Underground Storage Tank Service Fee:	$0.00
State Accidental Release Program Service Fee:	$0.00
State APSA fee:	$0.00
Total Amount Due:	**$561.00**

HAZARDOUS MATERIALS AND WASTE PROGRAM REGISTRATION INFORMATION

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		

Hazardous Waste Generator Class	SQG
Number of Underground Storage Tanks	0
On-Site Hazardous Waste Treatment Registration	N/A
Accidental Release Program Facility Registration	N/A
Above Ground Petroleum Storage Tank Program Registration (APSA)	No

City of San Leandro
Environmental Services Divisi

Hazardous Materials and Waste (CUPA) Fee Summary

March 1, 2015 - February 28, 2016

Facility: Apollo Motorhomes — Fiscal Year: 2015

Address: 14273 Washington Av — Customer #: 21133

City of San Leandro Annual Permit/Registration Fees	
Hazardous Materials Storage Fee:	$220.00
Underground Storage Tank Fee:	$0.00
Hazardous Waste Generator Fee:	$306.00
On-Site Hazardous Waste Treatment Fee:	$0.00
State of California Annual Service Fees	
State Service Fee for each Facility:	$35.00
State Underground Storage Tank Service Fee:	$0.00
State Accidental Release Program Service Fee:	$0.00
Total Amount Due:	**$255.00**

HAZARDOUS MATERIALS AND WASTE PROGRAM REGISTRATION INFORMATION

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		
Hazardous Waste Generator Class	Rec'd haz waste program termination notification 1/26/15		~~SQG~~
Number of Underground Storage Tanks			0
On-Site Hazardous Waste Treatment Registration			N/A
Accidental Release Program Facility Registration			N/A

City of San Leandro
Environmental Services Divisio

Hazardous Materials and Waste (CUPA) Fee Summary

March 1, 2015 - February 28, 2016

Facility: Apollo Motorhomes
Address: 14273 Washington Av

Fiscal Year: 2015
Customer #: 21133

City of San Leandro Annual Permit/Registration Fees	
Hazardous Material Storage Fee:	$220.00
Underground Storage Tank Fee:	$0.00
Hazardous Waste Generator Fee:	$0.00
On-Site Hazardous Waste Treatment Fee:	$0.00
CalARP Fee:	$0.00
APSA Fee	$0.00
State of California Annual Service Fees	
State Service Fee for each Facility:	$35.00
State Underground Storage Tank Service Fee:	$0.00
State Accidental Release Program Service Fee:	$0.00
State APSA fee:	$0.00
Total Amount Due:	**$255.00**

HAZARDOUS MATERIALS AND WASTE PROGRAM REGISTRATION INFORMATION

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		

Hazardous Waste Generator Class	No
Number of Underground Storage Tanks	0
On-Site Hazardous Waste Treatment Registration	N/A
Accidental Release Program Facility Registration	N/A
Above Ground Petroleum Storage Tank Program Registration (APSA)	No

City of San Leandro
Environmental Services Division
Hazardous Materials and Waste (CUPA) Registration
March 1, 2014 - February 28, 2015

Facility: Apollo Motorhomes
Address: 14273 Washington Av

Customer #: 21133
Fees Paid: $549.00
Date Paid: 3/5/14

You are currently registered for the following CUPA programs:

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		

Hazardous Waste Generator Class	SQG
Number of Underground Storage Tanks	0
On-Site Hazardous Waste Treatment Registration	No
Accidental Release Program Facility Registration	No
Above Ground Petroleum Storage Tank Program Registration	No

CESQG: (Conditionally Exempt Small Quantity Generator) - generates less than 100 kilograms (27 gallons or 220 pounds) of hazardous waste per month.

SQG: (Small Quantity Generator) - generates more than 100 kilograms (27 gallons or 220 pounds), but less than 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

LQG: (Large Quantity Generator) - generates more than or equal to 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

PBR: Permit by Rule **CA**: Conditionally Authorized **CE**: Conditionally Exempt

Quantity Range 1: Less than 500 lbs, 55 gal, or 2,000 cubic feet at STP
Quantity Range 2: 500 lbs, 55 gal, or 2,000 cu ft @ STP to 5,000 lbs, 550 gallons, or 20,000 cu ft @ STP
Quantity Range 3: 5,000 lbs, 550 gal, or 20,000 cu ft @ STP to 50,000 lbs, 5,500 gal, or 200,000 cu ft @ STP
Quantity Range 4: 50,000 lbs, 5,500 gal, or 200,000 cu ft @STP to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft@ STP
Quantity Range 5: Greater than or equal to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft @ STP

Mailed to:

Apollo Motorhomes
Attn: Joe Silveira
14273 Washington Av,
San Leandro, CA 94578

City of San Leandro
Environmental Services Division

Hazardous Materials and Waste (CUPA) Fee Summary

March 1, 2014 - February 28, 2015

Facility: Apollo Motorhomes — Fiscal Year: 2014

Address: 14273 Washington Av — Customer #: 21133

City of San Leandro Annual Permit/Registration Fees	
Hazardous Material Storage Fee:	$215.00
Underground Storage Tank Fee:	$0.00
Hazardous Waste Generator Fee:	$299.00
On-Site Hazardous Waste Treatment Fee:	$0.00
CalARP Fee:	$0.00
APSA Fee	$0.00
State of California Annual Service Fees	
State Service Fee for each Facility:	$35.00
State Underground Storage Tank Service Fee:	$0.00
State Accidental Release Program Service Fee:	$0.00
Total Amount Due:	**$549.00**

HAZARDOUS MATERIALS AND WASTE PROGRAM REGISTRATION INFORMATION

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		

Hazardous Waste Generator Class	SQG
Number of Underground Storage Tanks	0
On-Site Hazardous Waste Treatment Registration	No
Accidental Release Program Facility Registration	N/A
Above Ground Petroleum Storage Tank Program Registration (APSA)	No

City of San Leandro
Environmental Services Division

Hazardous Materials and Waste (CUPA) Registration
March 1, 2013 - February 28, 2014

Facility: Apollo Motorhomes
Address: 14273 Washington Av

Customer #: 21133
Fees Paid: $535.00
Date Paid: 3/12/13

You are currently registered for the following CUPA programs:

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		
Hazardous Waste Generator Class			SQG
Number of Underground Storage Tanks			0
On-Site Hazardous Waste Treatment Registration			No
Accidental Release Program Facility Registration			No
Above Ground Petroleum Storage Tank Program Registration			No

CESQG: (Conditionally Exempt Small Quantity Generator) - generates less than 100 kilograms (27 gallons or 220 pounds) of hazardous waste per month.

SQG: (Small Quantity Generator) - generates more than 100 kilograms (27 gallons or 220 pounds), but less than 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

LQG: (Large Quantity Generator) - generates more than or equal to 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

PBR: Permit by Rule **CA**: Conditionally Authorized **CE**: Conditionally Exempt

Quantity Range 1: Less than 500 lbs, 55 gal, or 2,000 cubic feet at STP
Quantity Range 2: 500 lbs, 55 gal, or 2,000 cu ft @ STP to 5,000 lbs, 550 gallons, or 20,000 cu ft @ STP
Quantity Range 3: 5,000 lbs, 550 gal, or 20,000 cu ft @ STP to 50,000 lbs, 5,500 gal, or 200,000 cu ft @ STP
Quantity Range 4: 50,000 lbs, 5,500 gal, or 200,000 cu ft @STP to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft@ STP
Quantity Range 5: Greater than or equal to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft @ STP

Mailed to: Apollo Motorhomes
Attn: Joe Silveira
14273 Washington Av,
San Leandro, CA 94578

City of San Leandro
Environmental Services Division

Hazardous Materials and Waste (CUPA) Fee Summary

March 1, 2013 - February 28, 2014

Facility: Apollo Motorhomes — Fiscal Year: 2013

Address: 14273 Washington Av — Customer #: 21133

City of San Leandro Annual Permit/Registration Fees	
Hazardous Material Storage Fee:	$209.00
Underground Storage Tank Fee:	$0.00
Hazardous Waste Generator Fee:	$291.00
On-Site Hazardous Waste Treatment Fee:	$0.00
CalARP Fee:	$0.00
APSA Fee	$0.00
State of California Annual Service Fees	
State Service Fee for each Facility:	$35.00
State Underground Storage Tank Service Fee:	$0.00
State Accidental Release Program Service Fee:	$0.00
Total Amount Due:	**$535.00**

HAZARDOUS MATERIALS AND WASTE PROGRAM REGISTRATION INFORMATION

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		

Hazardous Waste Generator Class	SQG
Number of Underground Storage Tanks	0
On-Site Hazardous Waste Treatment Registration	No
Accidental Release Program Facility Registration	N/A
Above Ground Petroleum Storage Tank Program Registration (APSA)	No

City of San Leandro
Environmental Services Division
Hazardous Materials and Waste (CUPA) Registration
March 1, 2012 - February 28, 2013

Facility: Apollo
Address: 14273 Washington Av

Customer #: 21133
Fees Paid: $639.00
Date Paid: 2/21/12

You are currently registered for the following CUPA programs:

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	1	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		

Hazardous Waste Generator Class	SQG
Number of Underground Storage Tanks	0
On-Site Hazardous Waste Treatment Registration	No
Accidental Release Program Facility Registration	No
Above Ground Petroleum Storage Tank Program Registration	No

CESQG: (Conditionally Exempt Small Quantity Generator) - generates less than 100 kilograms (27 gallons or 220 pounds) of hazardous waste per month.

SQG: (Small Quantity Generator) - generates more than 100 kilograms (27 gallons or 220 pounds), but less than 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

LQG: (Large Quantity Generator) - generates more than or equal to 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

PBR: Permit by Rule **CA:** Conditionally Authorized **CE:** Conditionally Exempt

Quantity Range 1: Less than 500 lbs, 55 gal, or 2,000 cubic feet at STP
Quantity Range 2: 500 lbs, 55 gal, or 2,000 cu ft @ STP to 5,000 lbs, 550 gallons, or 20,000 cu ft @ STP
Quantity Range 3: 5,000 lbs, 550 gal, or 20,000 cu ft @ STP to 50,000 lbs, 5,500 gal, or 200,000 cu ft @ STP
Quantity Range 4: 50,000 lbs, 5,500 gal, or 200,000 cu ft @STP to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft@ STP
Quantity Range 5: Greater than or equal to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft @ STP

Mailed to: Apollo
Attn: Joe Silvera
14273 Washington Av,
San Leandro, CA 94578

City of San Leandro
Environmental Services Division

Hazardous Materials and Waste (CUPA) Fee Summary

March 1, 2012 - February 28, 2013

Facility: Apollo — Fiscal Year: 2012

Address: 14273 Washington Av — Customer #: 21133

City of San Leandro Annual Permit/Registration Fees	
Hazardous Material Storage Fee:	$306.00
Underground Storage Tank Fee:	$0.00
Hazardous Waste Generator Fee:	$284.00
On-Site Hazardous Waste Treatment Fee:	$0.00
CalARP Fee:	$0.00
State of California Annual Service Fees	
State Service Fee for each Facility:	$49.00
State Underground Storage Tank Service Fee:	$0.00
State Accidental Release Program Service Fee:	$0.00
Total Amount Due:	**$639.00**

HAZARDOUS MATERIALS AND WASTE PROGRAM REGISTRATION INFORMATION

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	1	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		

Hazardous Waste Generator Class	SQG
Number of Underground Storage Tanks	0
On-Site Hazardous Waste Treatment Registration	No
Accidental Release Program Facility Registration	N/A
Above Ground Petroleum Storage Tank Program Registration	No

City of San Leandro
Environmental Services Division
Hazardous Materials and Waste (CUPA) Registration
March 1, 2011 - February 28, 2012

Facility: Apollo
Address: 14273 washington

Customer #: 21133
Fees Paid: $631.00
Date Paid: 2/9/11

You are currently registered for the following CUPA programs:

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	~~1~~	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		
Hazardous Waste Generator Class			~~SQG~~ CESQG
Number of Underground Storage Tanks			0
On-Site Hazardous Waste Treatment Registration			No
Accidental Release Program Facility Registration			No
Above Ground Petroleum Storage Tank Program Registration			No

CESQG: (Conditionally Exempt Small Quantity Generator) - generates less than 100 kilograms (27 gallons or 220 pounds) of hazardous waste per month.

SQG: (Small Quantity Generator) - generates more than 100 kilograms (27 gallons or 220 pounds), but less than 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

LQG: (Large Quantity Generator) - generates more than or equal to 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

PBR: Permit by Rule **CA**: Conditionally Authorized **CE**: Conditionally Exempt

Quantity Range 1: Less than 500 lbs, 55 gal, or 2,000 cubic feet at STP
Quantity Range 2: 500 lbs, 55 gal, or 2,000 cu ft @ STP to 5,000 lbs, 550 gallons, or 20,000 cu ft @ STP
Quantity Range 3: 5,000 lbs, 550 gal, or 20,000 cu ft @ STP to 50,000 lbs, 5,500 gal, or 200,000 cu ft @ STP
Quantity Range 4: 50,000 lbs, 5,500 gal, or 200,000 cu ft @STP to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft@ STP
Quantity Range 5: Greater than or equal to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft @ STP

Mailed to: Apollo
Attn: Joe Silvera
14273 washington,
San Leandro, CA 94578

Instructions: Federal and State laws require that you annually review your HMBP and chemical inventory statement. Please check the appropriate box below and return this form and any changes, if applicable, to Environmental Services at the address provided below.

HAZARDOUS MATERIALS BUSINESS PLAN CERTIFICATION FORM

Pursuant to Section 25503.3(c) of California Health and Safety Code (H&SC), the Hazardous Materials Business Plan (HMBP) certification described below is hereby submitted for the following facility:

Facility Name: Apollo Motorhome Holidays

Facility Street Address: 14273 Washington Blvd., San Leandro CA 94578

Date of Current HMBP: _____

I certify that: ***(Check the appropriate box.)***

☒ I have personally reviewed the Hazardous Materials Business Plan currently on file with your agency and it is complete and accurate (please see below).

- The information contained in the most recently submitted HMBP is complete, accurate, and up-to-date;
- There has been no change in the quantity of any hazardous material as reported in the most recently submitted Non-Waste Hazardous Materials Inventory forms;
- The facility has not begun handling any hazardous material in an HMBP reportable quantity which is not currently listed in the Hazardous Materials Inventory;
- The most recently submitted HMBP contains the information required by Section 11022 of Title 42 of the Code of Federal Regulations;
- There have been no substantial changes in the facility's hazardous materials operations which would require revision of the current HMBP.

☐ Revisions to the Hazardous Materials Business Plan are necessary. The HMBP as revised is being implemented. A copy of the revisions is enclosed with this Certification.

OWNER/OPERATOR CERTIFICATION: I hereby certify under penalty of law that based upon my inquiry of those individuals responsible for obtaining the information reported above, I believe that the submitted information is true, accurate, and complete. I understand that a revised HMBP must be submitted within 30 days of any change in this facility's storage or handling of hazardous materials which would require updating of the HMBP.

Name of Owner/Operator *(Print)*: Susan Toth Title: Regional Manager

Signature of Owner/Operator: Susan Toth Date: 1-31-11

Return to: City of San Leandro
Environmental Services
835 East 14th Street, Room 107
San Leandro, CA 94577

City of San Leandro
Environmental Services Division

Hazardous Materials and Waste (CUPA) Fee Summary

March 1, 2011 - February 28, 2012

Facility: Apollo
Address: 14273 washington

Fiscal Year: 2011
Customer #: 21133

City of San Leandro Annual Permit/Registration Fees	
Hazardous Material Storage Fee:	$302.00
Underground Storage Tank Fee:	$0.00
Hazardous Waste Generator Fee:	$280.00
On-Site Hazardous Waste Treatment Fee:	$0.00
CalARP Fee:	$0.00
State of California Annual Service Fees	
State Service Fee for each Facility:	$49.00
State Underground Storage Tank Service Fee:	$0.00
State Accidental Release Program Service Fee:	$0.00
Total Amount Due:	**$631.00**

HAZARDOUS MATERIALS AND WASTE PROGRAM REGISTRATION INFORMATION

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	1	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		

Hazardous Waste Generator Class	SQG
Number of Underground Storage Tanks	0
On-Site Hazardous Waste Treatment Registration	No
Accidental Release Program Facility Registration	N/A
Above Ground Petroleum Storage Tank Program Registration	No

City of San Leandro
Environmental Services Division

Hazardous Materials and Waste (CUPA) Registration

March 1, 2010 - February 28, 2011

Facility: Apollo
Address: 14273 washington

Customer #: 21133
Fees Paid: $433.23
Date Paid: 5/20/10

You are currently registered for the following CUPA programs:

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	1	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	0	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		

Hazardous Waste Generator Class	SQG
Number of Underground Storage Tanks	0
On-Site Hazardous Waste Treatment Registration	No
Accidental Release Program Facility Registration	No
Above Ground Petroleum Storage Tank Program Registration	No

CESQG: (Conditionally Exempt Small Quantity Generator) - generates less than 100 kilograms (27 gallons or 220 pounds) of hazardous waste per month.

SQG: (Small Quantity Generator) - generates more than 100 kilograms (27 gallons or 220 pounds), but less than 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

LQG: (Large Quantity Generator) - generates more than or equal to 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

PBR: Permit by Rule **CA**: Conditionally Authorized **CE**: Conditionally Exempt

Quantity Range 1: Less than 500 lbs, 55 gal, or 2,000 cubic feet at STP
Quantity Range 2: 500 lbs, 55 gal, or 2,000 cu ft @ STP to 5,000 lbs, 550 gallons, or 20,000 cu ft @ STP
Quantity Range 3: 5,000 lbs, 550 gal, or 20,000 cu ft @ STP to 50,000 lbs, 5,500 gal, or 200,000 cu ft @ STP
Quantity Range 4: 50,000 lbs, 5,500 gal, or 200,000 cu ft @STP to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft@ STP
Quantity Range 5: Greater than or equal to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft @ STP

Mailed to: Apollo
Attn: Joe Silvera
14273 washington,
San Leandro, CA 94578

City of San Leandro
Environmental Services Division

Hazardous Materials and Waste (CUPA) Fee Summary

March 1, 2010 - February 28, 2011

Facility: Apollo | Fiscal Year: 2010

Address: 14273 washington | Customer #: 21133

City of San Leandro Annual Permit/Registration Fees	
Hazardous Material Storage Fee:	$101.00
Underground Storage Tank Fee:	$0.00
Hazardous Waste Generator Fee:	$280.00
On-Site Hazardous Waste Treatment Fee:	$0.00
CalARP Fee:	$0.00
State of California Annual Service Fees	
State Service Fee for each Facility:	$49.00
State Underground Storage Tank Service Fee:	$0.00
State Accidental Release Program Service Fee:	$0.00
Total Amount Due:	**$430.00**

HAZARDOUS MATERIALS AND WASTE PROGRAM REGISTRATION INFORMATION

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	1	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	0	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		

Hazardous Waste Generator Class	SQG
Number of Underground Storage Tanks	0
On-Site Hazardous Waste Treatment Registration	No
Accidental Release Program Facility Registration	N/A
Above Ground Petroleum Storage Tank Program Registration	No

Business Change Notification Form

Effective Date: 01/13/10

CUPA Mailing Address	Pretreatment Mailing Address
Business Name: Apollo Attention: Branch Manager Address: 14273 washington City, State Zip: San Leandro, CA 94578 CUPA A/R #: 21133	Apollo Attn: 14273 washington San Leandro, CA 94578 A/R Lab #: ☐ A/R SVC: ☐ Utility #: ☐ A/R SUR: ☐
☐ This is an existing business with a mailing address change	☐ This is an existing business with a mailing address change
☐ This is an existing business that has closed, please close out their account.	☐ This is an existing business that has closed, please revert them to standard sewer billing rates.

☒ This is a new business, please assign the following customer numbers and **submit them to ESD**

- ☒ CUPA A/R #
- ☐ Lab A/R #
- ☐ Surcharge #
- ☐ Service # - Begin billing monthly Service charge of ☐

☐ Credit account # ☐ for the amount ☐

☐ Reinvoice Account # ☐ for the amount ☐ (see attached fee summary)

☐ Invoice Account # ☐ for ☐ (see attached fee summary)

Street Address:

Apollo
Attn: Branch Manager
14273 washington
San Leandro, CA 94578

Comments:

Submitted By: Karl Busche

FINANCE DEPT.
AM11:10JAN14'10

Business Change Notification Form

Effective Date: 01/13/10

CUPA Mailing Address	Pretreatment Mailing Address
Business Name: Apollo Attention: Branch Manager Address: 14273 washington City, State Zip: San Leandro, CA 94578 CUPA A/R #: ☐	Apollo Attn: 14273 washington San Leandro, CA 94578 A/R Lab #: ☐ A/R SVC: ☐ Utility #: ☐ A/R SUR: ☐
☐ This is an existing business with a mailing address change	☐ This is an existing business with a mailing address change
☐ This is an existing business that has closed, please close out their account.	☐ This is an existing business that has closed, please revert them to standard sewer billing rates.

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- ☐ Lab A/R #
- ☐ Surcharge #
- ☐ Service # - Begin billing monthly Service charge of ☐

- ☐ Credit account # ☐ for the amount ☐
- ☐ Reinvoice Account # ☐ for the amount ☐ (see attached fee summary)
- ☐ Invoice Account # ☐ for ☐ (see attached fee summary)

Street Address:

Apollo
Attn: Branch Manager
14273 washington
San Leandro, CA 94578

Comments:

Submitted By: Karl Busche

apollo®

Joe Silveira

Branch Manager

Email: j.silveira@apollorv.com

Apollo Motorhome Holidays

14273 Washington Ave.
San Leandro, CA. 94578

Internet: www.apollorv.com
Telephone: +1 510-614-8224
Cell: +1 510-229-0070
Fax: +1 510-614-8264

• Australia • USA • New Zealand • Canada •

City of San Leandro
Environmental Services Section
Hazardous Materials and Waste (CUPA) Registration

March 1, 2019 - February 28, 2020

Facility: Apollo Motorhome Holidays — Customer #: 21133
Address: 14273 Washington Av — Fees Paid: $296.00
You are currently registered for the following CUPA programs: — Date Paid: 3/12/19

Hazardous Material Class	Quantity Range	Hazardous Material Class	Quantity Range
Combustible Liquid	0	NonFlammable Gas	0
Corrosive	0	Organic Peroxide	0
Explosive	0	Oxidizer	0
Flammable Gas	2	Poisonous Gas	0
Flammable Liquid	0	Poisonous Material	0
Flammable Solid	0	Radioactive	No
Misc. Haz Mat	0		
Hazardous Waste Generator Class			N/A
Number of Underground Storage Tanks			0
On-Site Hazardous Waste Treatment Registration			
Accidental Release Program Facility Registration			No
Above Ground Petroleum Storage Tank Program Registration			No

CESQG: (Conditionally Exempt Small Quantity Generator) - generates less than 100 kilograms (27 gallons or 220 pounds) of hazardous waste per month.

SQG: (Small Quantity Generator) - generates more than 100 kilograms (27 gallons or 220 pounds), but less than 1,000 kilograms (270 gallons or 2,200 pounds) of hazardous waste per month.

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Quantity Range 3: 5,000 lbs, 550 gal, or 20,000 cu ft @ STP to 50,000 lbs, 5,500 gal, or 200,000 cu ft @ STP
Quantity Range 4: 50,000 lbs, 5,500 gal, or 200,000 cu ft @STP to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft@ STP
Quantity Range 5: Greater than or equal to 500,000 lbs, 55,000 gal, or 2,000,000 cu ft @ STP

Mailed to:

Apollo Motorhome Holidays
Attn: Corey Thompson
14273 Washington Av,
San Leandro, CA 94578

California Environmental Reporting System (CERS) — **Business Owner Operator**

Facility/Site
Apollo Motorhome Holidays
14273 Washington Ave
San Leandro, CA 94578
CERS ID: 10159957

Submittal Status
Submitted on 6/20/2018 by C Thompson of Apollo Motorhome Holidays (San Leandro, CA)
Submittal was Accepted; Processed on 6/20/2018 by Tiffany Treece for San Leandro City

Identification
Apollo Motorhome Holidays
Operator Phone: (510) 614-8224 | Business Phone: (510) 614-8124 | Business Fax: (510) 614-8264
Beginning Date: | Ending Date:
Dun & Bradstreet: | SIC Code: 7519 | Primary NAICS:

Facility/Site Mailing Address
14273 Washington Ave
San Leandro, CA 94578

Primary Emergency Contact
~~Corey Thompson~~ Manny
Title: Asst. Branch Manager
Business Phone: (510) 564-8485 | 24-Hour Phone: (510) 329-0070 | Pager Number: n/a

Owner
Luke & Karl Trouchet
(510) 614-8224
14273 Washington Ave
San Leandro, CA 94578

Secondary Emergency Contact
Alex
Title
VMO
Business Phone: | 24-Hour Phone: (510) 329-0070 | Pager Number:

Billing Contact
Maureen, R.
(510) 614-8224 sanfrancisco@apollorv.com
14273 Washington Ave
San Leandro, CA 94578

Environmental Contact
~~Corey Thompson~~
(510) 564-8485 c.thompson@apollorv.com
14273 Washington Ave
San Leandro, CA 94578

Name of Signer: Corey Thompson | Signer Title: Branch Manager | Document Preparer: Corey Thompson
Additional Information:

Locally-collected Fields
Some or all of the following fields may be required by your local regulator(s).

Property Owner
BALDI VICTOR D & BETTY M TRS
Phone: (925) 454-0425
Mailing Address: 5395 BLACKHAWK DR DANVILLE, CA 94506

Assessor Parcel Number (APN): 0778 1222 00619
Number of Employees: 6
Facility ID: 01-007-121003

Printed on 6/20/2018 11:35 AM

14273 Washington -Apollo

Treece, Tiffany

From: Danielle Barton <dbarton@canadream.com>
Sent: Thursday, November 05, 2020 10:34 AM
To: Treece, Tiffany; Danielle Barton
Subject: RE: Apollo Hazardous Materials Site - 14273 Washington Avenue, San Leandro

I see. As I am assigned to the NA Head Office I am afraid I do not have the information you are looking for. I will locate someone who can assist with that information.

Danielle Barton
Executive Assistant – CanaDream & Apollo USA

t 403-290-6904
e dbarton@canadream.com
w canadream.com
a 292154 Crosspointe Drive, Rockyview County, AB, Canada
s Skype: dbartonapollo

experience Canada at your own pace

This email, including any attachments, may contain confidential and/or privileged information. It is for the sole use of the intended recipient. If you have received th in error, please notify the sender and delete this email immediately.

From: Treece, Tiffany <TTreece@sanleandro.org>
Sent: November 5, 2020 11:21 AM
To: Danielle Barton <dbarton@canadream.com>; Danielle Barton <d.barton@apollorv.com>
Subject: RE: Apollo Hazardous Materials Site - 14273 Washington Avenue, San Leandro

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Danielle,

I took the attached photo this morning. The propane tank is onsite. The second attachment is the propane inventory registered to Apollo. Please complete the third attachment, the Facility Closure Form and send with it the paperwork from the propane company that verifies that the tank was emptied and the material removed from the site.

Thank you,

Tiffany Treece, Environmental Services Coordinator
City of San Leandro Environmental Services Section
835 E.14th Street, San Leandro CA 94577
Phone: (510) 577-6031
Fax: (510) 577-6019
Email: ttreece@sanleandro.org
https://www.sanleandro.org/depts/pw/env/default.asp

From: Danielle Barton <dbarton@canadream.com>
Sent: Wednesday, November 04, 2020 2:42 PM

To: Treece, Tiffany <TTreece@sanleandro.org>
Subject: RE: Apollo Hazardous Materials Site - 14273 Washington Avenue, San Leandro

Hi Tiffany,

I've run this by our Corporate Branch supervisor and I'm afraid no one seems to know what this is or what information should be included?

The propane company came and shut everything down and removed the tank I believe.

Danielle Barton
Executive Assistant – CanaDream & Apollo USA

t 403-290-6904
e dbarton@canadream.com
w canadream.com
a 292154 Crosspointe Drive, Rockyview County, AB, Canada
s Skype: dbartonapollo

This email, including any attachments, may contain confidential and/or privileged information. It is for the sole use of the intended recipient. If you have received th in error, please notify the sender and delete this email immediately.

From: Danielle Barton <d.barton@apollorv.com>
Sent: November 4, 2020 9:44 AM
To: Danielle Barton <dbarton@canadream.com>
Subject: FW: Apollo Hazardous Materials Site - 14273 Washington Avenue, San Leandro
Importance: High

CAUTION: This email originated from outside of this organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

From: Treece, Tiffany [mailto:TTreece@sanleandro.org]
Sent: Thursday, 15 October 2020 3:24 PM
To: Danielle Barton
Subject: Apollo Hazardous Materials Site - 14273 Washington Avenue, San Leandro
Importance: High

Ms. Barton,

It appears that Apollo has ceased doing business at 14273 Washington Avenue in San Leandro CA 94577. This site is registered as a handler of propane stored in an aboveground tank. Please complete the Facility Program Closure Form attached and email it to me as soon as possible.

Regards,

Tiffany Treece, Environmental Services Coordinator
City of San Leandro Environmental Services Section
835 E.14th Street, San Leandro CA 94577
Phone: (510) 577-6031
Fax: (510) 577-6019

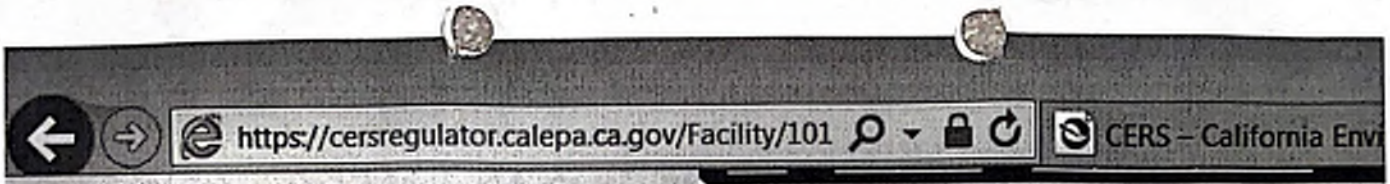
Treece, Tiffany

From: Treece, Tiffany
Sent: Thursday, August 29, 2019 2:59 PM
To: sanfrancisco@apollorv.com
Subject: Hazardous Materials Business Plan Submittal Overdue

The annual Hazardous Materials Business Plan (HMBP) submittal for Apollo Motorhome Holidays at 14273 Washington Avenue in San Leandro is overdue. There appears to have been a change in Branch Manager. Please update the HMBP and resubmit all elements in CERS. See screenshot below. Contact me if you have questions.

Regards,

Tiffany Treece, Environmental Protection Specialist
City of San Leandro Environmental Services Section
835 E.14th Street, San Leandro CA 94577
Phone: (510) 577-6031
Fax: (510) 577-6019
Email: ttreece@sanleandro.org
https://www.sanleandro.org/depts/pw/env/default.asp



- Summary
- Submittals
- Reporting Requirements
- Compliance
- Notifications
- Manage Facility
- Change UPA
- Location Map

Facility Summary for CE

Facility Name:
Business Name:
CUPA:

Facility Information

Apollo Motorhome Holidays
14273 Washington Ave
San Leandro, CA 94578
(510) 614-8224

Primary Emergency Contact

Corey Thompson
Branch Manager
(510) 564-8485
(510) 229-0070 (24-hour)

Environmental Contact

Corey Thompson
(510) 564-8485
c.thompson@apollorv.com

Mailing Address
14273 Washington Ave
San Leandro, CA 94578 Unite

Submittal and Compliance Data

Last Submittal Date 6/20/2018 11:09 AM
Submitted Ele 6

Reporting Status

FacInfo	Inventory
Accepted 06/20/2018 Next Due: 06/20/2019	Accepted 06/20/2018 Next Due: 06/20/2019

Inventory Summary

Unique Location Summary Count
1

Gas EHS Summary Count
0

Gas Material Summary Count
1

Gas Maximum Daily Summary Value
17,789 cubic feet

Reporting Requirements

City of San Leandro | Environmental Services Section | CUPA
835 E 14th Street | San Leandro, CA 94577 | 510-577-3401 | Fax 510-577-6019 | www.sanleandro.org

Inspection Report – Notice to Comply – Notice of Violation

Facility Name	Facility Address
Apollo Motorhome Holidays	14273 Washington Ave.
Facility Contact/Signature Consent given ☒	**Phone Number**
Carey Thompson/	614-8224
Inspector	**EPA ID Number** / **Date of Inspection**
Trecce	N/A / 6/20/18

1. Hazardous Materials Reporting

__a. Submit an HMBP to CERS: http://cers.calepa.ca.gov	HSC 6.95 25505 - 25508
__b. Update / recertify existing HMBP on CERS	HSC 6.95 25508.1-.2

2. Hazardous Waste (HW) Generator Requirements

__a. Make hazardous waste determination for_____	22CCR66262.11
__b. Obtain/reactivate EPA ID number for your facility	66262.12
__c. Accumulation time of _____ days exceeded	66262.34(a)(b)(d)
__d. Obtain a Hazardous Waste Treatment Permit	HSC25404.1.1
__e. Discontinue illegal treatment/recycling	HSC25201(a)
__f. Transporter and/or disposal facility not authorized	66263.41/HSC25163/25189.5a
__g. CESQG may transport hazardous waste to HHW	HSC25218

3. Container Requirements

__a. Properly label hazardous waste containers	66262.31/.34(f)
__b. Relocate Satellite Accumulation container at/near point of generation; dispose within 90 days of filling drum	66262.34(e)(1)-(2)
__c. Maintain adequate aisle space for HW containers	66262.34(d)(2)/66265.35
__d. Containers in poor condition/transfer contents	66262.34(d)(2)/66265.171
__e. Hazardous material/waste incompatible with container	66262.34(d)(2)/66265.172
__f. Close or seal HW containers except during transfer	66262.34(d)(2)/66265.173
__g. Inspect HW container storage area weekly	66262.34(d)(2)/66265.174
__h. Separate incompatible HW via dike, berm, wall	66262.34(d)(2)/66265.17(b)/.177
__i. Store ignitable/reactive HW 50' from property line	66265.176
__j. Label empty containers; manage within 1 year	66261.7/.7(f)
__k. Label/manage used oil filters; dispose within 1 year	66266.130
__l. Label/manage damaged lead-acid batteries	66266.81
__m. Store, label and recycle excluded recyclable material	HSC25143.2/.9

4. Tank Requirements

__a. Obtain HW tank integrity assessment/exemption	66265.192(a)(h)(k)(j)
__b. Provide secondary containment for tank system	66265.193
__c. Provide tanks with spill/overfill prevention controls	66265.194
__d. Inspect tank system and surrounding area daily;	66262.34(d)(2)/66265.195(a)
__e. Maintain written daily tank inspection logs	66265.195(c)
__f. Respond to leak/spill; discontinue discharge	66265.196
__g. Label tanks with chemical name and hazards	CFC5003.5/5703.5

5. Universal Waste (UW)

__a. Dispose of UW to approved destination facility	66273.31(a)
__b. Label/mark containers with type of UW	66273.34
__c. Recycle UW within 1 year of generation/receipt	66273.35
__d. Retain UW shipment records for 3 years	66273.39
__e. Properly manage UW aerosol cans	HSC25201.16(e)-(f)

6. Contingency Plan/Site Safety

__a. Prepare and submit a complete contingency plan	66265.51/.52
__b. Maintain copy of contingency plan at facility	66265.53
__c. Revise contingency plan	66265.54
__d. Secure HW storage area or post warning sign	66265.14
__e. Post emergency call list by phone (SQG/CESQG)	66262.34(d)(2)/40CFR262.34(d)(5)(iii)
__f. Maintain facility in a manner that minimizes risk of fire, explosion and releases of hazardous waste	66262.34(d)(2)/66265.31/17(a)
__g. Provide emergency and spill control equipment	66262.34(d)(2)/66265.32
__h. Test / maintain emergency and spill control equipment	66262.34(d)(2)/66265.33
__i. Provide portable fire extinguisher(s); service annually	66265.32/906.1/19CCR575.1

7. Reporting and Recordkeeping

__a. Hazardous waste shipped without properly completed manifest/Bill of Lading (BOL)/consolidated manifest	66262.20/.23(a)
__b. Submit manifest "generator copy" to DTSC	66262.23(a)(4)
__c. Retain hazardous waste manifest/BOL/consolidated manifest/TSDF copies for 3 years	66262.40(a)/HSC25160.2
__d. Retain hazardous waste analyses for 3 years	66262.40(c)
__e. Complete exception reporting *(TSDF signed copy not received within 35 days of waste shipment)*	66262.42
__f. Retain Land Disposal Restriction certificates for 3 yrs.	66268.7(a)
__g. Submit Source Reduction Plan (SB14) reports to DTSC	67100/HSC25244
__h. Submit biennial onsite recycling report (>100Kg/mo.)	HSC25143.10
__i. Submit Biennial Report to State and maintain onsite	66262.40(b)/.41

8. Personnel Training

__a. Provide training program for employees (LQG)	66265.16(a)
__b. Train new employees within 6 months of hire	66265.16(b)
__c. Provide emergency response training annually	66265.16(c)
__d. Maintain adequate training documentation on-site	66265.16(d)
__e. Retain training records on-site (former employee;3 yrs.)	66265.16(e)
__f. SQG/CESQG: employees must be familiar with waste handling and emergency procedures	66262.34(d)(2)/ 40CFR262.34(d)(5)(iii)

9. California Fire Code (CFC) Requirements

__a. Hazardous material storage exceeds maximum allowable quantity (MAQ); reduce volume/use storage cabinet	5003.1.1(1)-(4)/5704.3.4
__b. Indoor use/dispensing/mixing exceeds MAQ	5705.3.5.1-.5705.3.5.3
__c. Liquid storage cabinets must meet construction stand.	5704.3.2
__d. Store flam/comb liquid >10 gallons in flam cabinet *(liquids for maintenance/operation of building equipment)*	5704.3.4.4
__e. Provide approved dispensing system	5705.2
__f. Provide bonding and grounding for containers	5705.3.2
__g. Secure compressed gas cylinders	5303.5.3
__h. Secure hazardous materials storage area	5003.9.2
__i. Post NFPA 704 (diamond) placard	5003.5
__j. Maintain clearance from combustible materials	5704.2.6
__k. Separate incompatible materials by 20'/non-combustible partition /approved storage cabinet	5704.2.6/5003.9.8
__l. Store contaminated rags in approved container with lid	304.3.1
__m. Post "No Smoking" signs	5003.7.1
__n. Relocate outdoor flam liquid containers/portable tanks	5704.4.2
__o. Provide secondary containment for hazardous material	5004.2.2/5005.2.1.4

Comments: Service fire extinguishers. HMBP updated and current in CERS. Fuel AST is empty and out of service (propane is sole hazardous material). No waste generated (service is outsourced). No violations noted.

All violations listed above must be corrected within ____ days. Within 5 days of correcting all violations, sign below and return a signed copy to this office. The facility is subject to re-inspection at any time. *By signing below, I certify that I have corrected all violations noted above.*

Signature Date Printed Name

CCR – California Code of Regulations

CERS – California Environmental Reporting System, http://cers.calepa.ca.gov

CESQG – Conditionally Exempt Small Quantity Generator (≤220 Lbs, ≤27 Gal or <2.2 Lbs acute waste per month)

CFC – California Fire Code

CUPA – Certified Unified Program Agency

DTSC – Department of Toxic Substances Control

HMBP – Hazardous Materials Business Plan

HSC – California Health and Safety Code

Non-RCRA LQG – Large Quantity Generator (≥2,200 Lbs, ≥270 Gal, <2.2 lbs acute haz waste per month)

RCRA LQG – Federal Resource Conservation and Recovery Act LQG (≥2,200 lbs, ≥270 Gal, ≥2.2 lbs actue federal RCRA hazardous waste)

SQG – Small Quantity Generator (>220 - <2,200Lbs, >27- <270 Gal, <2.2 Lbs acute waste per month)

SLMC – San Leandro Municipal Code

TSDF – Transfer, Treatment, Storage, and Disposal Facility

California Environmental Reporting System (CERS) Violation Codes:

1. Hazardous Materials Reporting
   a. 1010001-1010005
   b. 1010006/1010008
   c. N/A

2. Hazardous Waste Generator Requirements
   a. 3030005/3130001
   b. 3010002/3110001
   c. 3030009/3030010/3030012/3130004
   d. 3210001
   e. 3250005
   f. 3050001/3050002/3150001
   g. N/A

3. Container Requirements
   a. 3030007/3130003
   b. N/A
   c. 3030036/3030037/3130016
   d. 3030013/3030014/3130005
   e. 3030015/3030016/3130006
   f. 3030017/3030018/3130007
   g. 3030019/3030020/3130008
   h. 3030022/3030023/3130010
   i. 3030021/3130009
   j. N/A
   k. 3030004
   l. 3030001/3030002/3030003
   m. 3050005

4. Tank Requirements
   a. 3010025/3110013/3110014
   b. 3030041/3130019
   c. 3030026/3130011
   d. 3030027/3030029/3130012
   e. 3030029
   f. 3040001/3140001
   g. N/A

5. Universal Waste
   a. 3050003
   b. 3030008
   c. 3030011
   d. 3030046
   e. 3030050/51

6. Contingency Plan/Site Safety
   a. 3030040/3130018/3010023/3110011
   b. 3010024/3110012
   c. 3010023/3110011

(6. continued)
   d. 3030052/3130021
   e. 3010022
   f. 3030030/3030031/3130013/3130017
   g. 3030032/3030033/3130014
   h. 3030034/3030035/3130015
   i. 3030034/3030035/3130015

7. Reporting and Recordkeeping
   a. 3010007/3010008/3110002/3110003
   b. 3010011/3110006
   c. 3010010/3010013/3110005
   d. 3030005
   e. 3010009/3110004
   f. 3030006/3130002
   g. 3010021/3110010
   h. 3010016
   i. 3110007

8. Personnel Training
   a. 3020002/3120001
   b. 3020002/3120001
   c. 3020002/3120001
   d. 3020002/3120001
   e. 3020002/3120001
   f. 3020001

9. California Fire Code (CFC) Requirements
   N/A in CERS

Alameda Countywide Clean Water Program
Standard Stormwater Facility Inspection Form

Municipality: San Leandro
Date: 6/20/18
Inspector: Treece
Facility has closed or info has changed ☐

Facility Name and adress:	Apollo Motorhome Holidays 14273 Washington Av San Leandro, CA 94578	**Contact:** Corey Thompson **Phone:** 510-614-8224 **SIC Code:** 7519	**Insp. Type:** Routine Inspection **Business Type:** RV Rental

Other Applicable Programs:

☐ Air Quality ☒ HMBP ☐ UST ☐ Sanitary Sewer ☐ Retail Food Facility
☒ Fire Dept. ☐ Haz Waste Generator ☐ AST ☐ Others _____

Is the facility covered under a storm water permit?

☒ Does not need coverage ☐ Individual Facility has an SWPPP: ☐ Yes
☐ No, but may need to be (Refer to Regional Board) ☐ General ☒ No

N/A = Not Applicable (blank = N/A, checked = A), PTNTL = Potential for Pollutant Discharge; 1 = low; 2 = medium; 3 = high; 9 = unknown; ACTUAL Discharge Type: BMP: 0 = Effective; 1 = fairly/almost effective; 2 = not effective; 3 = no BMPs impemented; 9 = unknown; PEX = Pollutant Exposure, NSW = Non-Stormwater Discharge

AREAS OF ACTIVITY	N/A	PTNL	Actual BMP	Actual PEX	Actual NSW	Remarks	Required Corrective Action
A. Outdoor Processes/Manufacturing Areas	☒			☐	☐		☐
B. Outdoor Material Storage Areas	☐	1	0	☐	☐	Propane AST. Fuel AST is empty, OOS, and locked out.	☐
C. Outdoor Waste Storage/Disp. Areas	☐	1	0	☐	☐	Dumpster lids are closed.	☐
D. Outdoor Veh/Hvy. Eq. Storage, Maint.	☐	1	0	☐	☐	RVs are parked in lot. Outdoor areas are clean and in good condition.	☐
E. Outdoor Parking Area Access & Roads	☐	1	0	☐	☐		☐
F. Outdoor Wash Areas	☐	1	0	☐	☐	Covered wash rack discharges to sanitary.	☐
G. Rooftop Equipment Areas	☒			☐	☐		☐
H. Outdoor Drainage from Indoor Areas	☒			☐	☐		☐
I. Other (Describe	☒			☐	☐		☐

Additional Comments/Remarks: **Maintenance required in Storm Drain System?** ☐ Yes ☒ No

Reinspection Priority ☐ First ☐ Second ☒ Third

Enforcement:
☐ Verbal Notice ☐ Informal Violation ☐ Administrative Action
☐ Warning Notice ☐ Formal Violation ☐ Administrative Penalty
☐ Legal Action

BMP Brochures Dist
BMP Brochures Desc:

City of San Leandro
835 East 14th Street
San Leandro, CA 94577

INSPECTION REPORT

Page 1 of 1

Environmental Services Section
Phone: (510) 577-3401
Fax: (510) 577-6019

Facility Name	Facility Address
Apollo Motorhome Holidays	14273 Washington Ave.
Facility Contact/Signature: Lynn Rumble / Lynn Rumble — Consent given ☒	Phone Number: 614-8224
Inspector: Treece	Date of Inspection: 7/23/15 0900

Description of Violation

1. Hazardous Materials Reporting
___ a. Submit a Hazardous Materials Business Plan (HMBP)
___ b. Revise existing HMBP: _____
___ c. Submit a SQ Hazardous Materials and Waste Registration
___ d. Submit a CUPA Programs Registration
___ e. Submit permit/registration fees of $ _____
___ f. Submit Material Safety Data Sheets (MSDS)

2. Storage Requirements
___ a. Relocate hazardous materials/waste storage area
___ b. Separate incompatible materials by 20 feet/noncombustible partition/separate storage cabinets
___ c. Provide secondary containment for _____
___ d. Properly label/store/recycle empty containers
___ e. Provide approved flammable liquids storage cabinet
___ f. Store unused chemicals in approved storage cabinets
___ g. Properly secure compressed gas cylinders
___ h. Reduce volume of regulated materials in storage area
___ i. Secure hazardous materials/waste storage area
___ j. Store contaminated rags in approved container with lid
___ k. Containers in poor condition/transfer contents
___ l. Hazardous material/waste incompatible with container
___ m. Maintain _____ ft. clearance from combustibles
___ n. Label tanks with chemical name and hazards

3. Dispensing, Use and Mixing Requirements
___ a. Provide approved dispensing system
___ b. Provide bonding and grounding for containers
___ c. Relocate dispensing, mixing area
___ d. Containers must be closed or sealed except during transfer

4. General Facility Requirements
___ a. Clean secondary containment/maintain in dry state
___ b. Discontinue discharge of hazardous materials/wastes
___ c. Provide/maintain spill control supplies
___ d. Maintain adequate aisle space in _____
___ e. Clean up spills and leaks immediately
___ f. Post NFPA 704 (diamond) placards at required locations

Description of Violation

___ g. Provide ___ extinguisher(s) with a min. rating of _____
___ h. Service fire extinguishers (annual service required)
___ i. Post "No Smoking" signs

5. Hazardous Waste Requirements
___ a. Obtain an EPA ID number for your facility
___ b. File an On-site Hazardous Waste Treatment Notification
___ c. Discontinue illegal treatment/recycling
___ d. HW transporter and TSDF must have EPA ID number
___ e. Determine if _____ is hazardous waste
___ f. Properly label hazardous waste containers
___ g. Hazardous waste must be disposed of within _____ days of the accumulation start date
___ h. Inspect container storage area weekly
___ i. Inspect tank system and surrounding area daily
___ j. Contaminated rags must be sent to an approved laundry
___ k. Properly label and manage used oil filters
___ l. Properly label and manage damaged batteries
___ m. CESQG may transport hazardous waste to HHW facility

6. Emergency Response Plan and Procedures
___ a. Prepare/revise emergency response plan/contingency plan
___ b. Emergency Coordinator must be familiar with plan
___ c. Post emergency call list by phone (SQG/CESQG)

7. Recordkeeping and Reporting
___ a. Inadequate hazardous waste manifesting procedures
___ b. Retain hazardous waste manifests for 3 years
___ c. Retain Land Disposal Restriction certificates for 3 years
___ d. Retain hazardous waste analyses for 3 years
___ e. Retain milkrun receipts for 3 years
___ f. Retain training records for 3 years
___ g. Submit SB14 reports to DTSC (LQGs)
___ h. Submit biennial recyclable materials report (LQGs/SQGs)

8. Personnel Training
___ a. Provide emergency response training annually
___ b. Train new employees within 6 months of hire
___ c. Maintain adequate training documentation on-site

Comments: All maintence has been outsourced. No hazardous waste generated. Only hazardous material is propane. Relocate fire extinguisher per bulletin. Fire extinguisher servicing is current (Dec. 2014). HMBP is current in CERS.

l.rumble@apollorv.com

All minor violations listed above must be corrected within ____ days. Within 5 days of correcting all violations, sign below and return a signed copy to this office. Additional comments or other violations are listed in the attached inspection reports. The facility is subject to re-inspection at any time.

I have corrected all of the minor violations noted above.

Signature Date Printed Name

Alameda Countywide Clean Water Program
Standard Stormwater Facility Inspection Form

Municipality: San Leandro
Date: 7/23/15
Inspector: Treece
Facility has closed or info has changed ☐

Facility Name and adress:	Apollo Motorhomes 14273 Washington Av San Leandro, CA 94578	**Contact:** Lynn Rumble **Phone:** 510-614-8224 **SIC Code:** 7519	**Insp. Type:** Routine Inspection **Business Type:** RV Rental

Other Applicable Programs:

☐ Air Quality ☒ HMBP ☐ UST ☐ Sanitary Sewer ☐ Retail Food Facility
☒ Fire Dept. ☐ Haz Waste Generator ☐ AST ☐ Others _____

Is the facility covered under a storm water permit?

☒ Does not need coverage ☐ Individual
☐ No, but may need to be (Refer to Regional Board) ☐ General

Facility has an SWPPP: ☐ Yes ☒ No

N/A = Not Applicable (blank = N/A, checked = A), PTNTL = Potential for Pollutant Discharge; 1 = low; 2 = medium; 3 = high; 9 = unknown; ACTUAL Discharge Type: BMP: 0 = Effective; 1 = fairly/almost effective; 2 = not effective; 3 = no BMPs impemented; 9 = unknown; PEX = Pollutant Exposure, NSW = Non-Stormwater Discharge

AREAS OF ACTIVITY	N/A	PTNTL	Actual BMP	Actual PEX	Actual NSW	Remarks	Required Corrective Action
A. Outdoor Processes/Manufacturing Areas	☒			☐	☐		☐
B. Outdoor Material Storage Areas	☐	1	0	☐	☐	LPG tank and out of service empty diesel tank.	☐
C. Outdoor Waste Storage/Disp. Areas	☐	1	0	☐	☐	Dumpster lids are closed.	☐
D. Outdoor Veh/Hvy. Eq. Storage, Maint.	☒			☐	☐		☐
E. Outdoor Parking Area Access & Roads	☐	1	0	☐	☐	Outdoor areas are clean.	☐
F. Outdoor Wash Areas	☒			☐	☐		☐
G. Rooftop Equipment Areas	☒			☐	☐		☐
H. Outdoor Drainage from Indoor Areas	☒			☐	☐		☐
I. Other (Describe	☒			☐	☐		☐

Additional Comments/Remarks: **Maintenance required in Storm Drain System?** ☐ Yes ☒ No

No maintenance activities onsite (outsourced maintenance in 2014). Lot is clean and in good condition.

Reinspection Priority ☐ First ☐ Second ☒ Third

Enforcement:
☐ Verbal Notice ☐ Informal Violation ☐ Administrative Action
☐ Warning Notice ☐ Formal Violation ☐ Administrative Penalty
☐ Legal Action

BMP Brochures Dist
BMP Brochures Desc:

Treece, Tiffany

From: San Francisco <sanfrancisco@apollorv.com>
Sent: Friday, February 06, 2015 2:52 PM
To: Treece, Tiffany
Subject: RE: Propane Tank Replacement

Thank you for the information.

Kind regards,
Maureen Raadschelders

Assistant Branch Manager
San Francisco Branch

Apollo Motorhome Holidays
14273 Washington Avenue
San Leandro CA 94578 U.S.A.

Phone: +1 510 614 8224
Email: m.raadschelders@apollorv.com
Web: www.apollorv.com & www.talvor.com

Global Headquarters
698 Nudgee Road
Northgate (Brisbane) Qld 4013
Australia
The Global RV Solution: Australia | Canada | New Zealand | USA

From: TTreece@sanleandro.org [mailto:TTreece@sanleandro.org]
Sent: Friday, 6 February 2015 9:08 PM
To: San Francisco
Subject: Propane Tank Replacement

Hi Maureen,

Regarding our discussion about possibly replacing the propane tank at Apollo, attached please find a tank removal form for removal of the current tank, an installation form and requirements for the replacement tank, and a current fee schedule. Please contact me if you have any questions.

Regards,

Tiffany Treece
City of San Leandro Environmental Services
(510) 577-6031

Scanned by the Netbox from Netbox Blue

Treece, Tiffany

From: San Francisco <sanfrancisco@apollorv.com>
Sent: Tuesday, January 27, 2015 8:08 AM
To: Treece, Tiffany
Subject: RE: Closeout of hazardous waste fee

Thank you for your quick response. I'll send it in to Account Payable today.

Kind regards.
Maureen Raadschelders

Assistant Branch Manager
San Francisco Branch

Apollo Motorhome Holidays
14273 Washington Avenue
San Leandro CA 94578 U.S.A.

Phone: +1 510 614 8224
Email: m.raadschelders@apollorv.com
Web: www.apollorv.com & www.talvor.com

Global Headquarters
698 Nudgee Road
Northgate (Brisbane) Qld 4013
Australia
The Global RV Solution: Australia | Canada | New Zealand | USA

From: TTreece@sanleandro.org [mailto:TTreece@sanleandro.org]
Sent: Tuesday, 27 January 2015 7:42 AM
To: San Francisco
Cc: RGurule@sanleandro.org
Subject: RE: Closeout of hazardous waste fee

I did receive it, thank you. I checked with the finance department and they said that rather than issue a new invoice, they will credit the account for the Hazardous Waste Generator fee line item of $306. So go ahead and pay the CUPA bill using the revised total of $255 ($220 for hazardous materials storage—propane, and the $35 State fee).

From: San Francisco [mailto:sanfrancisco@apollorv.com]
Sent: Monday, January 26, 2015 4:06 PM
To: Treece, Tiffany
Subject: RE: Closeout of hazardous waste fee

Thank you Tiffany.

I actually faxed the paperwork back. Did you receive it?

Kind regards.
Maureen Raadschelders

Assistant Branch Manager
San Francisco Branch

Apollo Motorhome Holidays
14273 Washington Avenue
San Leandro CA 94578 U.S.A.

Phone: +1 510 614 8224
Email: m.raadschelders@apollorv.com
Web: www.apollorv.com & www.talvor.com

Global Headquarters
698 Nudgee Road
Northgate (Brisbane) Qld 4013
Australia
The Global RV Solution: Australia | Canada | New Zealand | USA

From: TTreece@sanleandro.org [mailto:TTreece@sanleandro.org]
Sent: Monday, 26 January 2015 3:21 PM
To: San Francisco
Subject: Closeout of hazardous waste fee

Hi Maureen,

Attached is the program closure form we discussed to close out Apollo from the hazardous waste generator program now that you are outsourcing the activities that had generated hazardous waste. Please complete the attached form and email it back to me with a scan of the paperwork from your final waste haul. I will then notify the finance department to issue a revision to Apollo's CUPA billing. Let me know if you have any questions. Thank you.

Regards,

Tiffany Treece, Environmental Protection Specialist
City of San Leandro Environmental Services Section
835 E.14th Street, San Leandro CA 94577
Phone: (510) 577-6031
Fax: (510) 577-6019

Scanned by the Netbox from Netbox Blue

Scanned by the Netbox from Netbox Blue

(3) Findings for Contributing Sources to NPDES Exceedances. There were no NPDES exceedances during this reporting period.

(4) Influent/Effluent Metals Five-Year Trend Graphs and Discussion. Figures 1 through 13 on the following pages depict metals trends in City of San Leandro POTW influent and effluent from 2011 through 2014. Effluent metals remain well below NPDES limits. Influent concentrations for many metals are below effluent discharge limits.

City of San Leandro
835 East 14th Street
San Leandro, CA 94577

FACILITY/PROGRAM CLOSURE

Page 1 of 1

Environmental Services Section
Phone: (510) 577-3401
Fax: (510) 577-6019

Please complete this form prior to the closure of any hazardous materials storage system or facility and return to the above address. Based on the information submitted below, and the complexity of the closure, a written Closure Plan may be required.

1. Facility Information

Facility Name: Apollo Motorhome Holidays Facility Phone: (510) 614 8224

Site Address: 14273 Washington Ave, San Leandro, CA 94578

Contact Name: Manager Contact Phone: ( )

Forwarding Address: ____

City: San Leandro State: CA Zip: 94546 Phone No.: ( ) ____

2. Closure Information

☐ Full Facility Closure ☐ Partial Facility Closure/Remodel | Proposed Date of Closure: ____

Check the activities/processes being closed:

☒ Hazardous Materials ☒ Hazardous Waste ☐ Pretreatment ☐ Stormwater (Notice of Termination to RWQCB required)

☐ Aboveground Storage Tank (closure plan required) ☐ Underground Storage Tank (closure plan required)

☐ Tiered Permit (Meet closure standard; CE/CA Notification; PBR Closure Plan) ☐ Cal-ARP

Briefly describe the proposed closure activity. Indicate the previous use(s) of the area(s) to be closed and the types of chemicals used or stored in the area(s) (include all materials listed on the Inventory Report of the facility's Hazardous Materials Business Plan). Include equipment, tanks, piping, exhaust and treatment systems, and the proposed final disposition of any hazardous materials and/or hazardous wastes. Attach additional pages if necessary.

All oil services on our vehicles have been outsourced since spring 2014.
Recycled oil and filters have been picked up by Golden State environmental.
Please reduce the Cupa bill accordingly.

Thank you.

For Agency use only:		
Inspector:	Signature:	Date of Inspection:

City of San Leandro
835 East 14th Street
San Leandro, CA 94577

FACILITY/PROGRAM CLOSURE

Page 1 of 1

Environmental Services Section
Phone: (510) 577-3401
Fax: (510) 577-6019

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City: San Leandro State: CA Zip: 94546 Phone No.: ( )

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All oil services on our vehicles have been outsourced since spring 2014.
Recycled oil and filters have been picked up by Golden State environmental.
Please reduce the Cupa bill accordingly.

Thank you.

For Agency use only:		
Inspector:	Signature:	Date of Inspection:

GOLDEN STATE

Environmental Services, LLC
Waste Oil, Coolant & Filter Pick-up
(800) 295-9738
(408) 687-6780

PO# HML4TN

Bill of Lading

Invoice # [illegible]

REMIT TO:
P.O. Box 4778
Santa Clara, CA 95056
EPA #CAL000276581

Date 1/22/15

BILLING INFORMATION	JOB SITE	
NAME APOLLO [illegible]	NAME	PO# CASH CHECK
ADDRESS 14273 [illegible]	ADDRESS	CUSTOMER EPA ID #
CITY [illegible] STATE ZIP	CITY STATE ZIP	PROFILE #
PHONE NO. (510) 614-[illegible]	PHONE NO. ( )	CUSTOMER ID #

PRODUCT PROPER SHIPPING DESCRIPTION	WASTE CODE	MANIFEST NUMBER	QUANTITY	UNITS	PRICE	AMOUNT
Brained Used Oil Filters			1			50
Used Oil, Non-RCRA Hazardous Waste, Liquid	221	[illegible]	50	[illegible]		50
Used Automotive Antifreeze, Non-RCRA Hazardous Waste, Liquid	134					
Oily Water Non-RCRA Hazardous Waste, Liquid						
Non RCRA Hazardous Waste Solid Oil Contaminated Debris / Soil						
Non Hazardous Waste Liquid						
Non Hazardous Waste Solid						
Transportation Charges						
Washout Charges						
Empty Drums			2			50.00
Additional Labor						
Universal Waste						
Other						

DISPOSAL/RECYCLING FACILITY: Collection Station

TOTAL 150.00

NET 14 DAYS

☒ DK-Dixon
7300 Chevron Way
Dixon, CA 95620
CAT 080012602

☐ Evergreen Oil
6880 Smith Ave.
Newark, CA 94560
CAD 980887418

☒ Commercial Filter Recycling
33210 Western Ave
Union City, CA 94587

Comments/Notes:

I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of the waste. All relevant information regarding known or suspected hazards associated with the wastes has been disclosed. I certify that we have an established program to reduce the volume of waste to the degree to be economically practicable.

DRIVER SIGNATURE [signature]

CUSTOMER SIGNATURE [signature]

City of San Leandro
Civic Center, 835 E. 14th Street
San Leandro, California 94577
www.sanleandro.org

September 3, 2013

Joe Silveira
Branch Manager
Apollo Motorhomes
14273 Washington Av
San Leandro, CA 94578

RE: Notice of Non-compliance with Hazardous Materials Reporting
California Environmental Reporting System (CERS)

A recent review of CERS indicates your facility is not in compliance with state law requiring electronic submission of hazardous materials reporting at http://cers.calepa.ca.gov/. This office has sent several reminders and information to assist you in meeting the requirement.

If you submitted a paper Hazardous Materials Business Plan in 2012, your electronic resubmittal is due on its anniversary date in 2013. If you have unsubmitted drafts in CERS or have submittals that were not accepted, please complete the submittal process.

If you do not have access to a computer, a computer work station is available in our office. If you need assistance, we can provide it over the phone, in our office, or at your place of business. We wish to work with you to avoid the penalty process.

In the event that registration and required submittals have not been made by **October 1, 2013**, Environmental Services staff will conduct a compliance site visit and assess a site visit fee in the amount of **$263** per Title 6, Chapter 4 of the San Leandro Administrative Code.

If you need assistance or have questions, please contact your assigned Environmental Services Specialist directly or call our main number at 510-577-3401 and we will be pleased to help you.

Sincerely,

John Camp
Environmental Services Supervisor
(Digitally signed for John Camp by GS)

cc: File

Stephen H. Cassidy, Mayor
City Council: Pauline Russo Cutter, Michael J. Gregory, Benny Lee, Jim Prola, Ursula Reed, Diana M. Souza

DAVID B. STEVENS

D.B.A.

R.L. Stevens Company

P.O. Box 361 San Leandro CA.94577 • Phone 510-889-0908

• FAX: 510-889-0179

E-mail --- RLSCompany@aol.com

June 24, 2013

Scott Owen P.E.
Bay Area Air Quality Management District
Supervising Air Quality Engineer

REF: Gas Tank Closure (Above Ground)
V.B. Enterprise
14273 Washington Ave.
San Leandro, CA. 94577

This is a letter of notification that the existing 1,000 Gallon above ground gasoline tank will be closed down and put out of service.

The tanks have been emptied of all product. The piping will be plugged off and made out of service. The vent line will be left intact.

Please remove this unit from your rolls.

Tank closure will be completed by:
R.L. Stevens Company
P.O. Box 361
San Leandro, CA. 94577

Please confirm your receipt of this letter so we may close our file.

Thank You, Bob Stevens

R.L. Stevens Company
Bob Stevens
General Manager
Phone - 510-889-0908
Cell - 510-823-9008

Treece, Tiffany

From: RLSCompany@aol.com
Sent: Friday, August 16, 2013 10:50 AM
To: Treece, Tiffany
Cc: RLSCompany@aol.com
Subject: Tank Closure 14273 Washington Ave San Leandro
Attachments: Tank Closure VB Enterprise.docx

Good Morning,

As per your request please see copies of the fuel haul off as required. Hazardous waste manifest and Bill of Lading # WOC136254 and 011575068 JJK.

Please confirm you received so we may close this job. If there is anything else, please let me know.

Thanks, Bob

R.L. Stevens Company
Bob Stevens
General Manager
Phone - 510-889-0908
Cell - 510-823-9008

"Generator mail a copy to : DTSC, P.O. Box 400, Sacramento, CA 95812-0400 within 30 days."

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CAD027390779	1	1-800-424-9300	011575068 JJK

GENERATOR

5. Generator's Name and Mailing Address

R L STEVENS CO
14273 WASHINGTON AVE
HAYWARD, CA 94541
Generator's Phone: 510-889-0906

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: EVERGREEN ENVIRONMENTAL SERVICES — U.S. EPA ID Number: CAD982413262

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address

EVERGREEN OIL, INC.
6880 SMITH AVE.
NEWARK, CA 94560
Facility's Phone: 510-795-4400

U.S. EPA ID Number: CAD980687418

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1.					213	0001	D018
X	UN1993, WASTE FLAMMABLE LIQUIDS, N.O.S., 3, II (GASOLINE, DIESEL)	2	DM	110	G			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information

A. 91885 ERG 128-9B1 2X55GM

Document #: 155638

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: X Jaf Silvia — Signature: X — Month 8 Day 19 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. — Port of entry/exit: — Date leaving U.S.:

Transporter signature (for exports only):

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Dwight Smith — Signature: Dwight Smith — Month 8 Day 19 Year 13

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Evergreen Environmental Services

dedicated to the protection of the environment

To schedule a pickup, call
800-972-5284
or 510-795-4400

6880 Smith Ave., Newark, CA EPA# CAD982413262
16540 S. San Pedro St., Carson, CA EPA# CAD981696420

Send Payment to:
Evergreen Oil Inc
Dept. of LA 23234
Pasadena, CA 91185-3234

Work Order
Bill of Lading WOC136254

Customer RLST08

Pickup Location:
R L STEVENS CO
14273 WASHINGTON AVE

HAYWARD CA 94541

Bill To:
R L STEVENS CO
P O BOX 361

SAN LEANDRO CA 94577

Contact: ROBERT STEVENS (510) 889-0908 Ext 0000

NOTE 510823-0008

CUST NO.	EPA NO.	TERMS	PURCHASE ORDER NUMBER	TERRITORY
RLST08	CAC002739079	Net 30		130

REQ. DATE	BOE NO.	Billgroup	OIL ROUTE	PROFILE	PROFILE	PRINTED BY
8/7/2013			1			gbreedlove

Quantity Req.	Quantity Pickup	Item Description	Manifest No.	Unit Price	Amount
2.00	X55GM	CONTAMINATED FUEL COLLECTION SVC FUEL - DRUM 91985	011575068JTK	$0.00Contract	C
	2 DR FUEL PER SAM READ DP				

TSDF

- [X] Evergreen Oil, Inc. 6880 Smith Ave. Newark, CA 94560 CAD980887418
- [ ] Evergreen Oil, Inc. - Davis Road 308 Davis, CA 95616 CAD982446874
- [ ] Evergreen Oil, Inc. - Fresno 4139 N. Valentine Fresno, CA 93722 CAD982446882
- [ ] Evergreen Env. Svc. 16604 San Pedro Carson, CA 90746 CAD981696420
- [ ] Evergreen Oil, Inc. - Sta. Maria 745 A West Betteravia Santa Maria, CA 93454 CAD982446858
- [ ] SA Recycling 33210 Western Union City, CA 94587 CAD000344530

- [ ] **Consolidated Manifest**
- [ ] **Test Results** _____ PPM

DRIVER CHECKLIST 151-220

- [ ] Drum Properly Labeled
- [ ] Generator Start Date Entered
- [ ] Hazard Keeping - Tank Drum Clean
- [ ] Other Services Checked [ ] OK [ ] Filter Drums [ ] Antifreeze
- [ ] Called in other services needed [ ] OK [ ] Filters Drums [ ] Antifreeze

C

Source: [ ] Collection Station [ ] Government [ ] Marine [ ] Agricultural [ ] Industrial

Generator certifies that it has established a program to reduce the volume or quantity & toxicity of the hazardous waste to the degree determined by generator to be economically practicable.

I hereby certify that I have read and have the authority to bind the above listed generator to the terms on the reverse side of this form.

Retain Sample # _____

IMPORTANT NOTICE REGARDING THE DISPOSITION OF YOUR OIL.

Per California Health and Safety Code Section 25250.9, Evergreen hereby advises customer that customer's shipment of used oil may be transported to a facility that is required to comply with federal regulations applicable to management of used oil, but that is not required to comply with the more stringent requirements applicable to hazardous waste management facilities. California facilities that handle or process used oil are required to meet those more stringent requirements, and some out-of-state facilities that process used oil also meet those requirements. These include more stringent leak detection and prevention requirements, engineering certifications of tank integrity, and financial assurances for closure and accidental releases. It is lawful to send used oil to out-of-state facilities that comply only with federal used oil management standards and not these more stringent requirements. This notification is for information purposes only.

Driver Signature	Print Name	Route #	Date	Generator's Signature	Print Name	Date
[signature]	[signature]	Mark Smith	8/9/13	[signature]	Joe Silveira	8-9-13

City of San Leandro
Environmental Services Division
835 East 14th Street, San Leandro, CA 94577, (510) 577-3401
INSPECTION REPORT

Date: 8/15/13	**Time:** 1230	**Inspector:** Treece
Business Name: Apollo Motorhomes		
Contact: Joe Silveira		**Title:** Branch Manager
Business Address: 14273 Washington Av		**Phone:** 510-614-8224

Reason for Inspection: **Class:**

Inspected Manufacturing Facilities:		Copies of all MSDS on file:	
Inspected Process Used:		Inspected Spill Prevention Procedures:	
Inspected Pretreatment Facilities:		Self Monitoring Procedures:	
Inspected Substances Discharged:		Inspected Laboratory Procedures:	
Inspected Chemical Storage:		Follow-Up Required:	
Drainage:		Enforcement:	
Inspected Waste Manifest:		Slug Control Plan Evaluated	

Inspection Notes:

Site visit to verify closure of AST (split tank 1,000 gallons capacity each side - diesel/gasoline). R.L. Stevens Co. had Evergreen Oil pump out residual fuel in tank (one drum each) and locked out fills. They will mark tank "empty". The tank will remain onsite out of service. The current tenant, Apollo Motorhomes, does not want to use the tank, but the property owner wants tank to remain onsite should a future tenant wish to recommission it.

Water:	Industrial Waste Discharged:
Water Metering:	Hazardous Materials: Yes
Sample Site:	If Other (Specify):

City of San Leandro
Environmental Services Division
835 East 14th Street, San Leandro, CA 94577, (510) 577-3401
INSPECTION REPORT

Date: 5/29/12	**Time:** 10:30	**Inspector:** Camp
Business Name: Apollo Motorhome Holidays		
Contact: Joe Silveira		**Title:** Branch Manager
Business Address: 14273 Washington Av		**Phone:** 510-614-8224

Reason for Inspection: Routine **Class:** N/A

Inspected Manufacturing Facilities:	N/A	Copies of all MSDS on file:	Yes
Inspected Process Used:	Yes	Inspected Spill Prevention Procedures:	Yes
Inspected Pretreatment Facilities:	N/A	Self Monitoring Procedures:	N/A
Inspected Substances Discharged:	N/A	Inspected Laboratory Procedures:	N/A
Inspected Chemical Storage:	Yes	Follow-Up Required:	No
Drainage:	Yes	Enforcement:	No
Inspected Waste Manifest:	Yes	Slug Control Plan Evaluated	N/A

Inspection Notes:

Routine inspection for CUPA, Fire Code and Stormwater programs. Violation for missing HMBP submittal. Completed Forms provided during inspection. No change in business operations. Bulk LPG tank ok. Emergency shut off visible and signage ok. Fire Extingusher in place. No change in shop area. Used oil drum and used filter drum on secondary containment pallet in corner of shop. Minor mainteance on rental fleet. No change in washrack, covered and enclosed on three sides.

Split 2000 gallon AST (1000 gal diesel & 1000 gal gasoline; owned by property owner BALDI VICTOR D & BETTY M TRS; is still out of service and empty. Assest on site that property owner is maintaining BAAQMD permit active. Dispenser nozzles are locked out. Need to also pad lock the fill port spill bucket covers and label the tanks "MT" in big letters to be exempt from APSA inventory and requirements. Tank has been empty since United Rentals closed and Apollo has never used.

Branch Manager speaking with Planning about possiibly modifying business to include service of private owned motorhomes and storage of private motorhomes. Also wants to look into installing an onsite dump station rather than keep sending them to trailer haven. Provided contact informaiton for Oro Loma Sanitary District as site is in their service area.

Water: Utility	Industrial Waste Discharged:
Water Metering: Water	Hazardous Materials: Yes
Sample Site: N/A	If Other (Specify):

Alameda Countywide Clean Water Program
Standard Stormwater Facility Inspection Form

Municipality: San Leandro
Date: 5/29/12
Inspector: Camp
Facility has closed or info has changed ☐

Facility Name and adress: Apollo Motorhome Holidays 14273 Washington Av San Leandro, CA 94578	**Contact:** Joe Silveira **Phone:** 510-614-8224 **SIC Code:** 7519	**Insp. Type:** Routine Inspection **Business Type:** RV Rental	

Other Applicable Programs:

☐ Air Quality ☒ HMBP ☐ UST ☐ Sanitary Sewer ☐ Retail Food Facility
☒ Fire Dept. ☒ Haz Waste Generator ☐ AST ☐ Others _____

Is the facility covered under a storm water permit?

☒ Does not need coverage ☐ Individual
☐ No, but may need to be (Refer to Regional Board) ☐ General

Facility has an SWPPP: ☐ Yes ☒ No

N/A = Not Applicable (blank = N/A, checked = A), PTNTL = Potential for Pollutant Discharge; 1 = low; 2 = medium; 3 = high; 9 = unknown; ACTUAL Discharge Type: BMP: 0 = Effective; 1 = fairly/almost effective; 2 = not effective; 3 = no BMPs impemented; 9 = unknown; PEX = Pollutant Exposure, NSW = Non-Stormwater Discharge

AREAS OF ACTIVITY		N/A	PTNTL	Actual BMP	Actual PEX	Actual NSW	Remarks	Required Corrective Action
A.	Outdoor Processes/Manufacturing Areas	☐	1	0	☐	☐	LPG fuel tank, no stormwater potential	☐
B.	Outdoor Material Storage Areas	☒			☐	☐		☐
C.	Outdoor Waste Storage/Disp. Areas	☐	1	0	☐	☐	Trash drop box lids in place, no signs of spillage or leakage.	☐
D.	Outdoor Veh/Hvy. Eq. Storage, Maint.	☐	1	0	☐	☐	minor mianteance on pads in front of shop. No stains or signs of impacts.	☐
E.	Outdoor Parking Area Access & Roads	☐	1	0	☐	☐	Parking areas and entrance drive all clean, free of trash and debris.	☐
F.	Outdoor Wash Areas	☐			☐	☐	Large wash bay roofed and enclosed on three sides all contained indoors.	☐
G.	Rooftop Equipment Areas	☒			☐	☐		☐
H.	Outdoor Drainage from Indoor Areas	☒			☐	☐		☐
I.	Other (Describe	☒			☐	☐		☐

Additional Comments/Remarks: **Maintenance required in Storm Drain System?** ☐ Yes ☒ No

Customers come to site to pickup and drop off rentals so keep site clean and tidy.

Used oil and filters and all other materials are keep inside shop bays.

Property owner maintaining former Fuel AST but currently Apollo does not use it. Both split tanks are empty so no potential from filling or fuel dispensing.

Reinspection Priority ☐ First ☐ Second ☒ Third

Enforcement:
☐ Verbal Notice ☐ Informal Violation ☐ Administrative Action
☐ Warning Notice ☐ Formal Violation ☐ Administrative Penalty
☐ Legal Action

BMP Brochures Dist
BMP Brochures Desc:

City of San Leandro
835 East 14th Street
San Leandro, CA 94577

INSPECTION REPORT

Environmental Services Section
Phone: (510) 577-3401
Fax: (510) 577-6019

Facility Name: Apollo Motorhome Holidays	Facility Address: 14273 Washington
Facility Contact/Signature: Joe Silveira Washington	Consent given: ☒ Phone Number: 614-8224
Inspector: J. Camp	Date of Inspection: 5/29/12

Description of Violation

1. Hazardous Materials Reporting
- X a. Submit a Hazardous Materials Business Plan (HMBP)
- ___ b. Revise existing HMBP: _____
- ___ c. Submit a SQ Hazardous Materials and Waste Registration
- ___ d. Submit a CUPA Programs Registration
- ___ e. Submit permit/registration fees of $ _____
- ___ f. Submit Material Safety Data Sheets (MSDS)

2. Storage Requirements
- ___ a. Relocate hazardous materials/waste storage area
- ___ b. Separate incompatible materials by 20 feet/noncombustible partition/separate storage cabinets
- ___ c. Provide secondary containment for _____
- ___ d. Properly label/store/recycle empty containers
- ___ e. Provide approved flammable liquids storage cabinet
- ___ f. Store unused chemicals in approved storage cabinets
- ___ g. Properly secure compressed gas cylinders
- ___ h. Reduce volume of regulated materials in storage area
- ___ i. Secure hazardous materials/waste storage area
- ___ j. Store contaminated rags in approved container with lid
- ___ k. Containers in poor condition/transfer contents
- ___ l. Hazardous material/waste incompatible with container
- ___ m. Maintain _____ ft. clearance from combustibles
- ___ n. Label tanks with chemical name and hazards

3. Dispensing, Use and Mixing Requirements
- ___ a. Provide approved dispensing system
- ___ b. Provide bonding and grounding for containers
- ___ c. Relocate dispensing, mixing area
- ___ d. Containers must be closed or sealed except during transfer

4. General Facility Requirements
- ___ a. Clean secondary containment/maintain in dry state
- ___ b. Discontinue discharge of hazardous materials/wastes
- ___ c. Provide/maintain spill control supplies
- ___ d. Maintain adequate aisle space in _____
- ___ e. Clean up spills and leaks immediately
- ___ f. Post NFPA 704 (diamond) placards at required locations

Description of Violation

- ___ g. Provide ___ extinguisher(s) with a min. rating of _____
- ___ h. Service fire extinguishers (annual service required)
- ___ i. Post "No Smoking" signs

5. Hazardous Waste Requirements
- ___ a. Obtain an EPA ID number for your facility
- ___ b. File an On-site Hazardous Waste Treatment Notification
- ___ c. Discontinue illegal treatment/recycling
- ___ d. HW transporter and TSDF must have EPA ID number
- ___ e. Determine if _____ is hazardous waste
- ___ f. Properly label hazardous waste containers
- ___ g. Hazardous waste must be disposed of within _____ days of the accumulation start date
- ___ h. Inspect container storage area weekly
- ___ i. Inspect tank system and surrounding area daily
- ___ j. Contaminated rags must be sent to an approved laundry
- ___ k. Properly label and manage used oil filters
- ___ l. Properly label and manage damaged batteries
- ___ m. CESQG may transport hazardous waste to HHW facility

6. Emergency Response Plan and Procedures
- ___ a. Prepare/revise emergency response plan/contingency plan
- ___ b. Emergency Coordinator must be familiar with plan
- ___ c. Post emergency call list by phone (SQG/CESQG)

7. Recordkeeping and Reporting
- ___ a. Inadequate hazardous waste manifesting procedures
- ___ b. Retain hazardous waste manifests for 3 years
- ___ c. Retain Land Disposal Restriction certificates for 3 years
- ___ d. Retain hazardous waste analyses for 3 years
- ___ e. Retain milkrun receipts for 3 years
- ___ f. Retain training records for 3 years
- ___ g. Submit SB14 reports to DTSC (LQGs)
- ___ h. Submit biennial recyclable materials report (LQGs/SQGs)

8. Personnel Training
- ___ a. Provide emergency response training annually
- ___ b. Train new employees within 6 months of hire
- ___ c. Maintain adequate training documentation on-site

Comments: HMBP completed on-site
No other violations noted

All minor violations listed above must be corrected within ____ days. Within 5 days of correcting all violations, sign below and return a signed copy to this office. Additional comments or other violations are listed in the attached inspection reports. The facility is subject to re-inspection at any time.

I have corrected all of the minor violations noted above.

Signature Date Printed Name

Code References for Listed Violations

Violation	Code Section
1.	
a.	19 CCR 2729
b.	19 CCR 2729
c.	27 CCR 15190
d.	27 CCR 15190
e.	27 CCR 15210
f.	19 CCR 2729
2.	
a.	22 CCR 66265.176 CFC 3404.4.2
b.	22 CCR 66265.177 CFC 2703.9.8
c.	22 CCR 66265.193 CFC 2704.2
d.	22 CCR 66261.7 CFC 3404.3.3.4
e.	CFC 3404.3.2
f.	CFC 3404.3.4.4
g.	CFC 3003.5.3
h.	CFC 3404/3405/2701
i.	CFC 2703.9.2
j.	CFC 304.3.1
k.	22 CCR 66265.171
l.	22 CCR 66265.172
m.	CFC 3404.2.6/2404.11
n.	CFC 2703.5/ 3403.5
3.	
a.	CFC 3405.2/2705.1
b.	CFC 3405.3.2
c.	CFC 3405.3.8.2/2704
d.	22 CCR 66265.173
4.	
a.	22 CCR 66265.196 CFC 2703.3
b.	H&S Code 25189.5 22 CCR 66265.196 CFC 2703.3
c.	22 CCR 66265.32
d.	22 CCR 66265.35
e.	22 CCR 66265.56
f.	CFC 2703.5
g.	22 CCR 66265.32 CFC 906.1
h.	22 CCR 66265.33 CFC 904.11.5
i.	CFC 3404.2.3.1/2703.7.1
5.	
a.	22 CCR 66262.12(a)
b.	H&S Code 25201.4.1
c.	H&S Code 25201(a)
d.	22 CCR 66262.12(c)
e.	22 CCR 66262.11
f.	22 CCR 66262.34
g.	22 CCR 66262.34 H&S Code 25123.3
h.	22 CCR 66265.174
i.	22 CCR 66265.195
j.	H&S Code 25144.6
k.	22 CCR 66266.130
l.	22 CCR 66266.81
m.	H&S Code 25218
6.	
a.	22 CCR 66265.53 & .54 19 CCR 2731
b.	22 CCR 66265.55
c.	22 CCR 66262.34(d)(2)
7.	
a.	22 CCR 66262.20-23 &42
b.	22 CCR 66262.40
c.	22 CCR 66268.7(a)(8)
d.	22 CCR 66262.40
e.	22 CCR 66263.42(e)
f.	22 CCR 66265.16
g.	H&S Code 25244.19
h.	H&S Code 25143.10
8.	
a.	22 CCR 66265.16 H&S Code 25504
b.	22 CCR 66265.16 H&S Code 25504
c.	22 CCR 66265.16

19 CCR 2729 - Title 19 California Code of Regulations Section 2729
2007 California Fire Code Section
H&S Code 25189.5 - California Health & Safety Code Section 25189.5

City of San Leandro
Civic Center, 835 E. 14th Street
San Leandro, California 94577

May 11, 2010

Joe Silvera
Apollo
14273 Washington Avenue
San Leandro, CA 94578

Dear Joe Silvera:

SUBJECT: Reminder Notice - 2010-2011 CUPA Registration Fee

Your CUPA registration payment is now overdue (account #21133). In order to comply with annual CUPA registration requirements, please pay by May 27, 2010 the balance due as reflected on the May, 2010 statement mailed to you by our Finance Department. For your convenience, the Finance Department now accepts in-person payments by major credit card except American Express.

Upon receipt of your payment, Environmental Services will issue you the required CUPA Registration form covering the period from March, 2010 through February, 2011.

If you have questions or need additional information, please contact the Finance Department at (510) 577-3382 or Environmental Services at (510) 577-3401.

Thank you.

Sincerely,

John Camp
Environmental Services Supervisor

JC:gs

I/EPSI/CUPA/Admin/Ltr-CUPAFeeReminderNotice

Tony Santos, Mayor

City Council: Michael J. Gregory; Jim Prola; Ursula Reed; Diana M. Souza; Joyce R. Starosciak; Bill Stephens

City of San Leandro
835 East 14th Street
San Leandro, CA 94577

SPECTION REPORT

Environmental Services Section
Phone: (510) 577-3401
Fax: (510) 577-6019

Page 1 of 1

Facility Name: Apollo		Facility Address: 14273 Washington	
Facility Contact/Signature: Joe Silvera	Consent given:	Phone Number:	
Inspector: Karl Bush		Date of Inspection: 5-6-10	

Description of Violation

1. Hazardous Materials Reporting
- X a. Submit a Hazardous Materials Business Plan (HMBP)
- ___ b. Revise existing HMBP: _____
- ___ c. Submit a SQ Hazardous Materials and Waste Registration
- ___ d. Submit a CUPA Programs Registration
- ___ e. Submit permit/registration fees of $ _____
- ___ f. Submit Material Safety Data Sheets (MSDS)

2. Storage Requirements
- ___ a. Relocate hazardous materials/waste storage area
- ___ b. Separate incompatible materials by 20 feet/noncombustible partition/separate storage cabinets
- ___ c. Provide secondary containment for _____
- ___ d. Properly label/store/recycle empty containers
- ___ e. Provide approved flammable liquids storage cabinet
- ___ f. Store unused chemicals in approved storage cabinets
- ___ g. Properly secure compressed gas cylinders
- ___ h. Reduce volume of regulated materials in storage area
- ___ i. Secure hazardous materials/waste storage area
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- ___ m. Maintain _____ ft. clearance from combustibles
- ___ n. Label tanks with chemical name and hazards

3. Dispensing, Use and Mixing Requirements
- ___ a. Provide approved dispensing system
- ___ b. Provide bonding and grounding for containers
- ___ c. Relocate dispensing, mixing area
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4. General Facility Requirements
- ___ a. Clean secondary containment/maintain in dry state
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- ___ d. Maintain adequate aisle space in _____
- ___ e. Clean up spills and leaks immediately
- ___ f. Post NFPA 704 (diamond) placards at required locations

Description of Violation

- ___ g. Provide ___ extinguisher(s) with a min. rating of _____
- ___ h. Service fire extinguishers (annual service required)
- ___ i. Post "No Smoking" signs

5. Hazardous Waste Requirements
- ___ a. Obtain an EPA ID number for your facility
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- ___ g. Submit SB14 reports to DTSC (LQGs)
- ___ h. Submit biennial recyclable materials report (LQGs/SQGs)

8. Personnel Training
- ___ a. Provide emergency response training annually
- ___ b. Train new employees within 6 months of hire
- ___ c. Maintain adequate training documentation on-site

Comments: Submit HMBP within 15 days - 2nd notice

All minor violations listed above must be corrected within 15 days. Within 5 days of correcting all violations, sign below and return a signed copy to this office. Additional comments or other violations are listed in the attached inspection reports. The facility is subject to re-inspection at any time.

I have corrected all of the minor violations noted above.

Signature Date Printed Name

City of San Leandro
835 East 14th Street
San Leandro, CA 94577

INSPECTION REPORT

Environmental Services Section
Phone: (510) 577-3401
Fax: (510) 577-6019

Page 1 of ___

new Contact

Facility Name: Apollo		Facility Address: 14273 Washington	
Facility Contact/Signature: ~~Skyler Nelson~~ / Joe Abercrombie	Consent given ☐	Phone Number	
Inspector: Karl Busche		Phone Number: 577-3341	Date of Inspection: ~~9-15-09~~ 10/7/09

Description of Violation

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- X a. Submit a Hazardous Materials Business Plan (HMBP)
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- ___ b. File an On-site Hazardous Waste Treatment Notification
- ___ c. Discontinue illegal treatment/recycling
- ___ d. HW transporters and TSDF
- ___ e.
- ___ f.
- ___ g.
- ___ h.
- ___ i.
- ___ j.
- ___ k.
- ___ l.
- ___ m.
- ___ a.
- ___ b.
- ___ c. Post emergency call list by phone (SQG/CESQG)

7. Recordkeeping and Reporting
- ___ a. Inadequate hazardous waste manifesting procedures
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8. Personnel Training
- ___ a. Provide emergency response training annually
- ___ b. Train new employees within 6 months of hire
- ___ c. Maintain adequate training documentation on-site

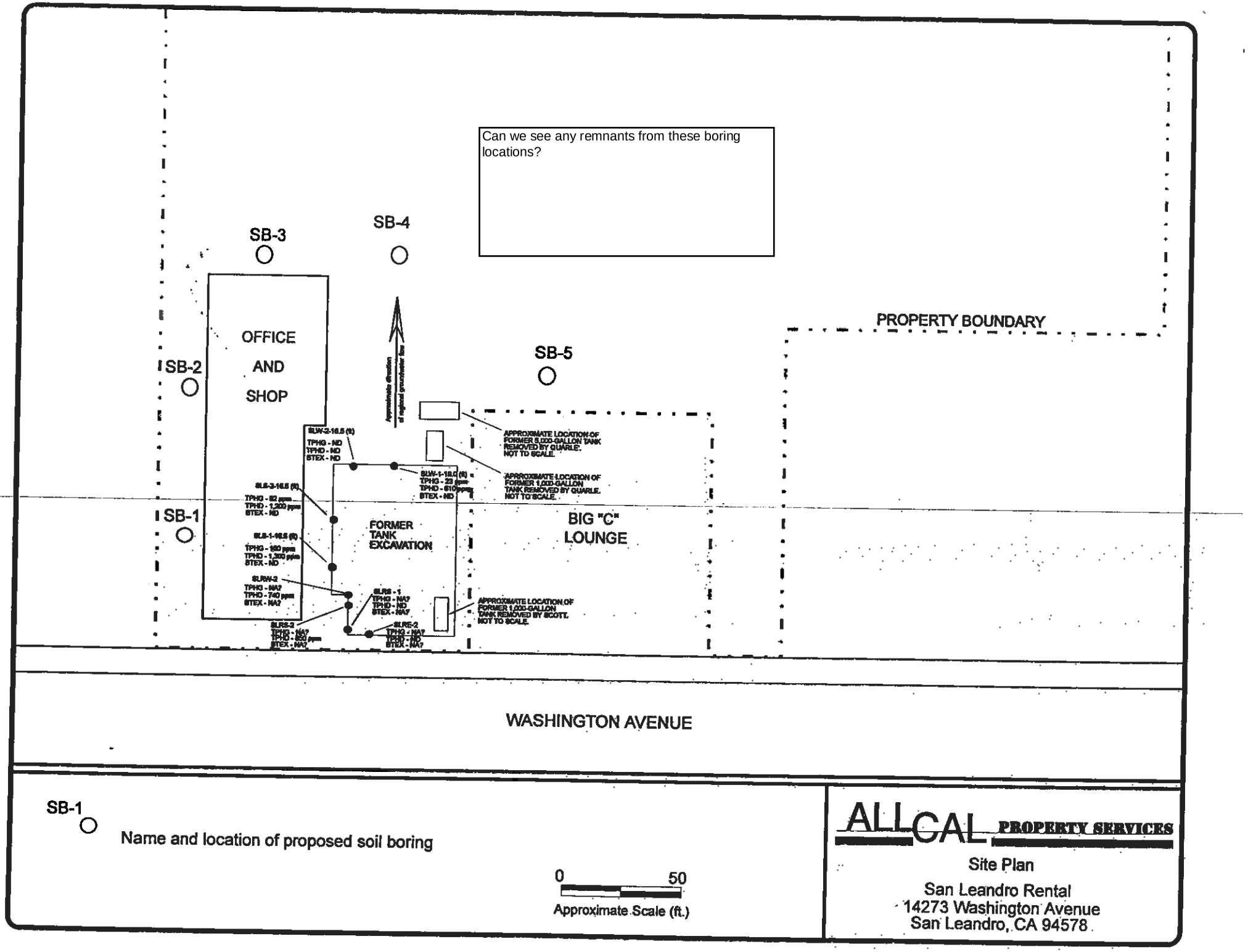
Comments: Submit Hazardous Materials Business Plan within 15 DAYS

Vic Baldi 925-371-5302

All minor violations listed above must be corrected within 15 days. Within 5 days of correcting all violations, sign below and return a signed copy to this office. Additional comments or other violations are listed in the attached inspection reports. The facility is subject to re-inspection at any time.

I have corrected all of the minor violations noted above.

Signature | Date | Printed Name



SB-1 ○ Name and location of proposed soil boring

0 50

Approximate Scale (ft.)

ALLCAL PROPERTY SERVICES

Site Plan

San Leandro Rental
14273 Washington Avenue
San Leandro, CA 94578

4

AN LEANDRO RENTALS
14273 WASHINGTON AVE.

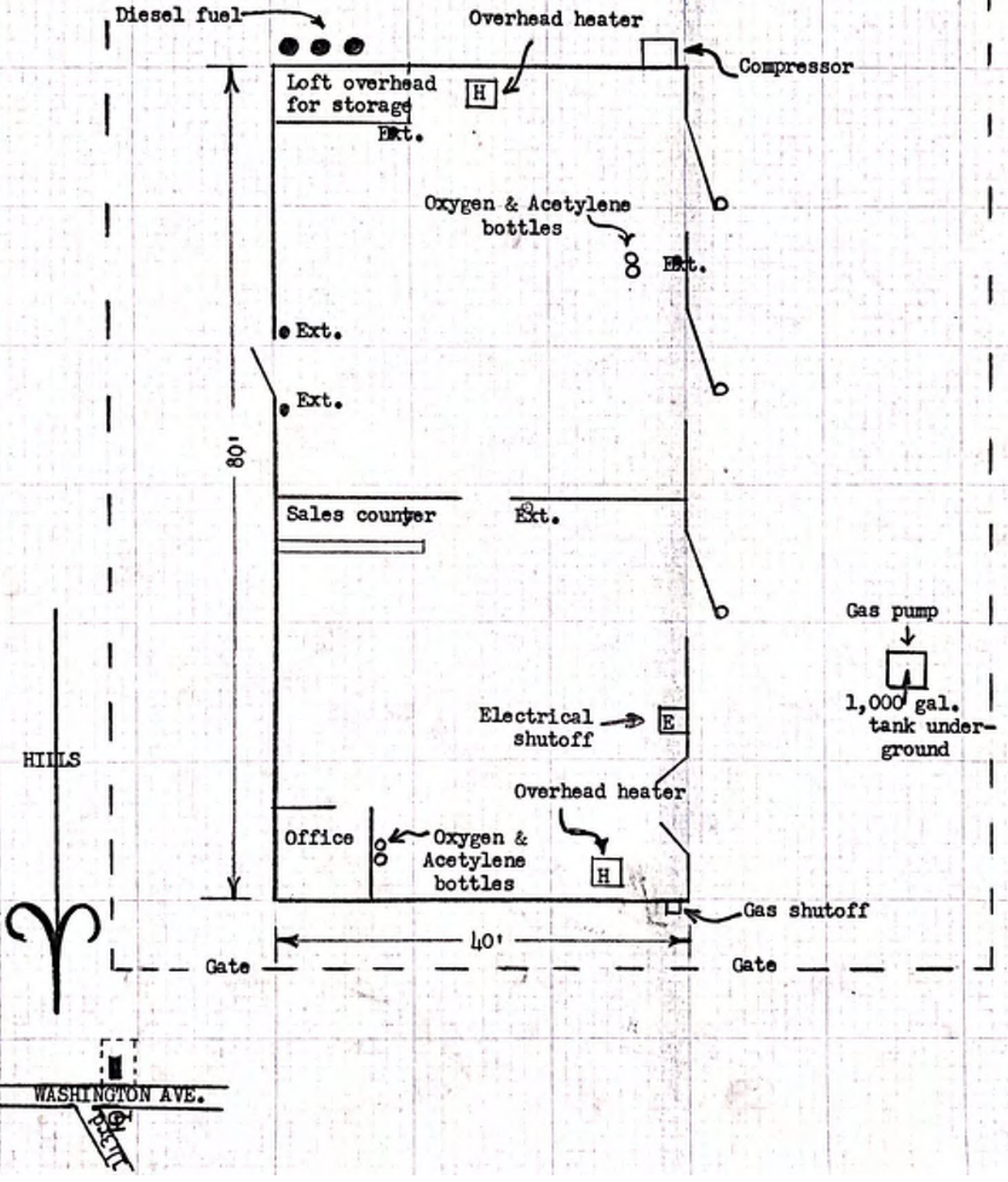
#1564
6/3/65

Building const.: Concrete block

Roof const.: Tar & gravel

Hazardous cont.: Oxygen bottles, acetylene bottles, gasoline tank, cutting & welding torch.

Exposures : South: Morgan Bros. Patios; North: Big "O" Bar; R.R. Tracks to West



PUMPS · LIFTS · METERS · HOSE · COMPRESSORS · LUBRICATION

SAN LEANDRO RENTAL
14273 WASHINGTON
SAN LEANDRO

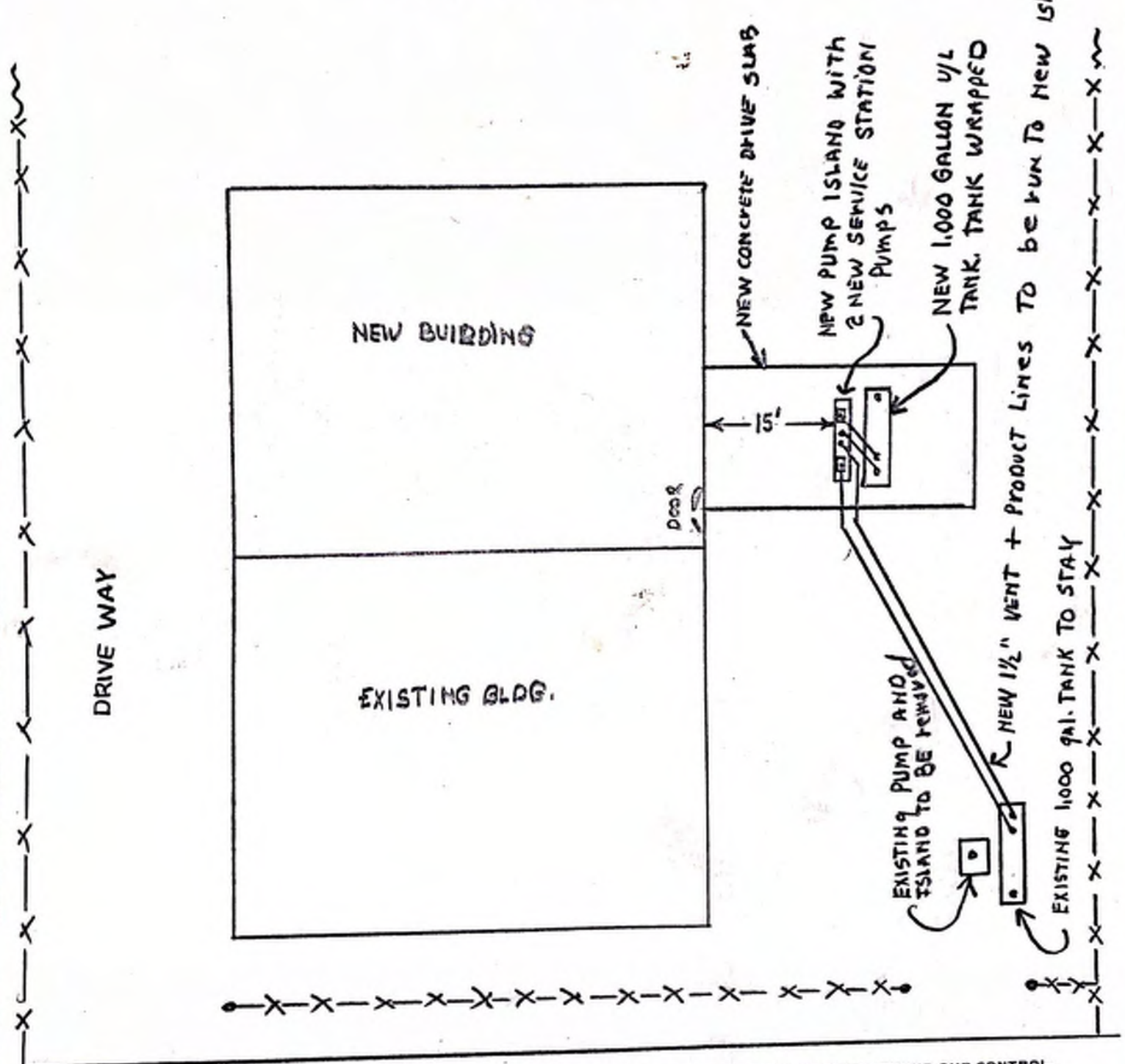
D. L. STEVENS INC.

GENERAL CONTRACTORS
SERVICE STATION AND INDUSTRIAL EQUIPMENT
INSTALLATION - SALES AND SERVICE
990 – 98TH AVENUE
OAKLAND, CALIFORNIA 94603

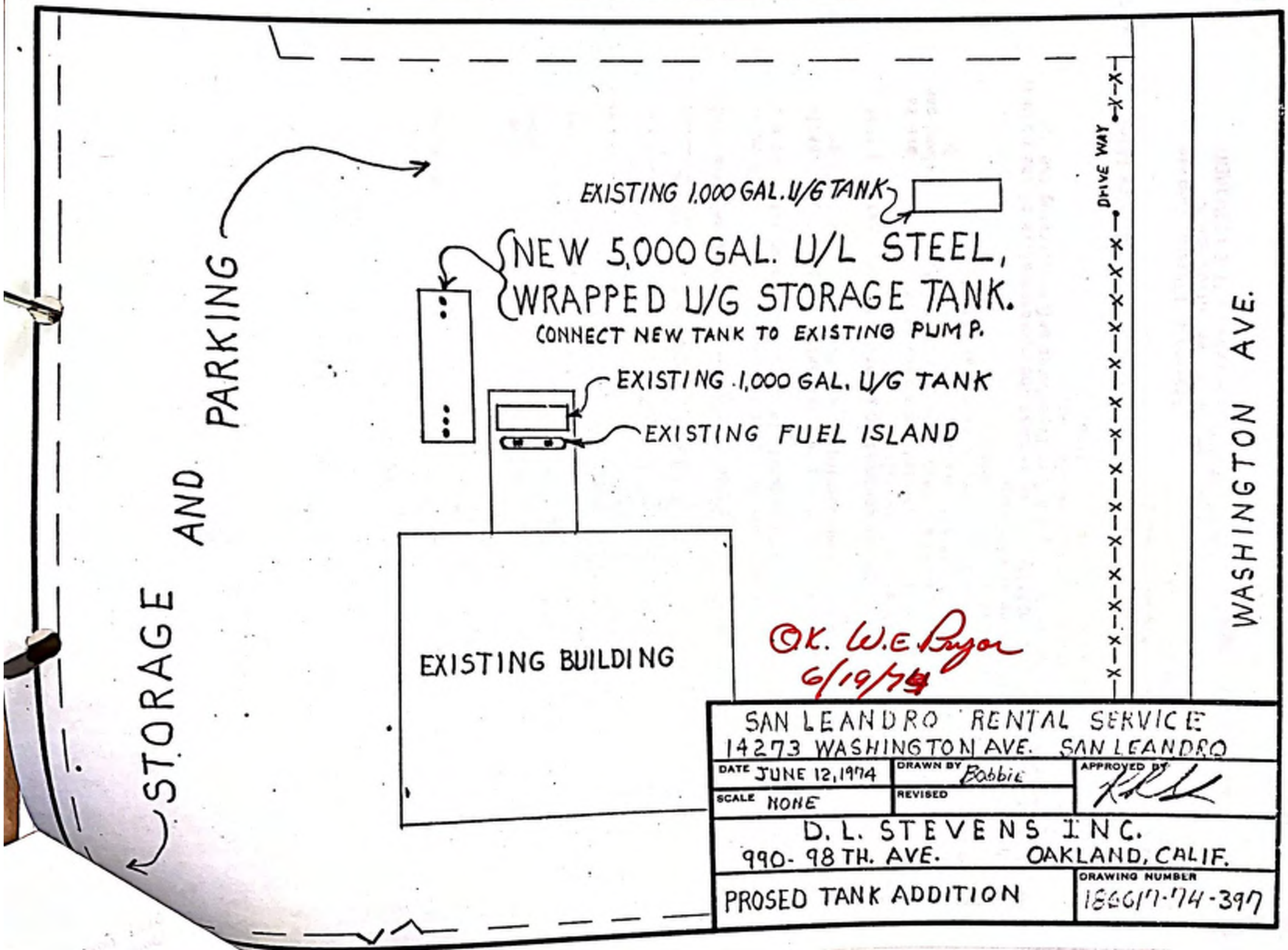
PHONES 568-0938, 568-1686, RES. 278-5396

NOV. 14, 1971

PROPOSED TANK

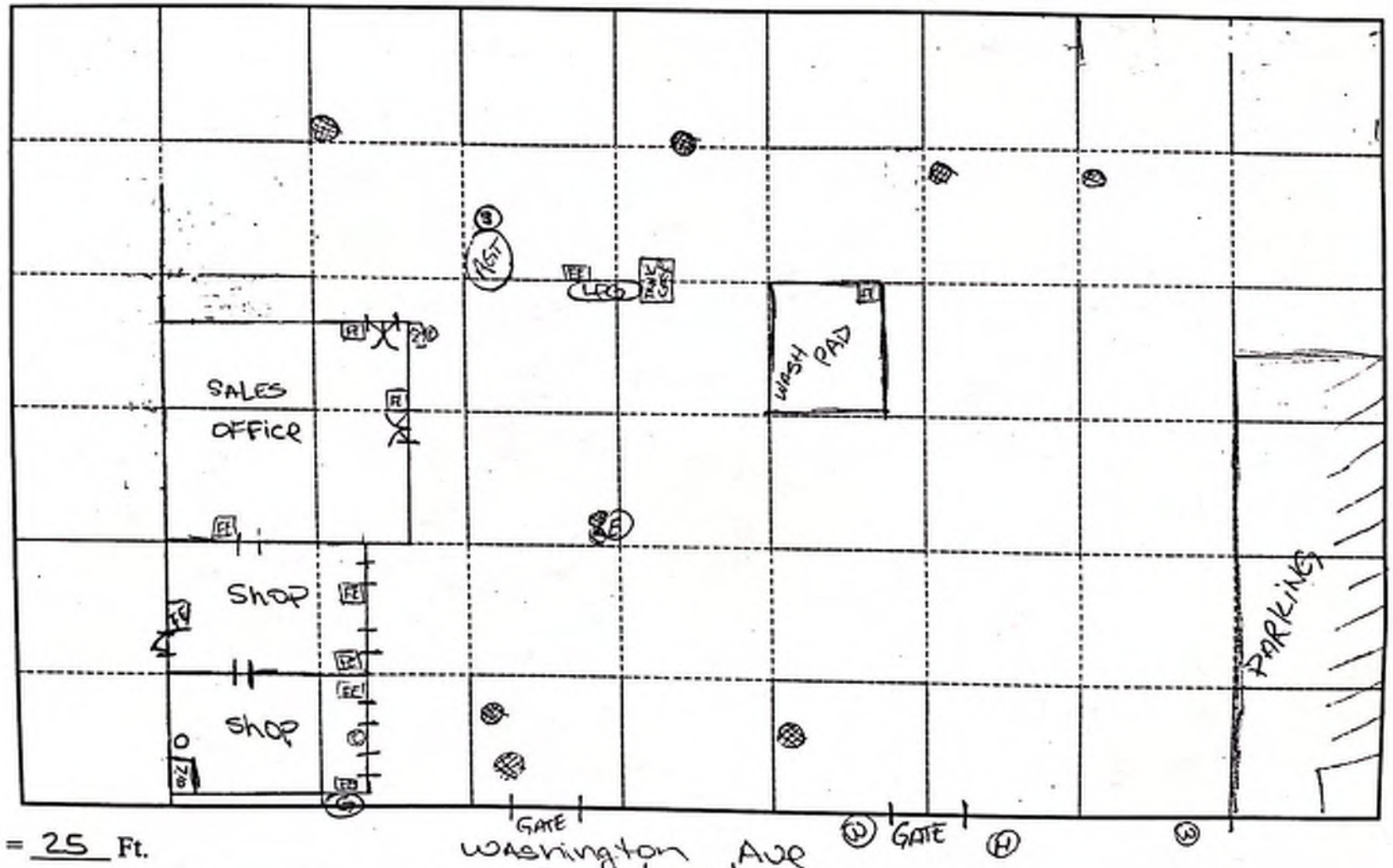


ALL QUOTATIONS VOID AFTER THIRTY DAYS. NOT RESPONSIBLE FOR FIRE, FLOODS, STRIKES OR ACTS BEYOND OUR CONTROL.


EXISTING 1,000 GAL. U/G TANK
NEW 5,000 GAL. U/L STEEL, WRAPPED U/G STORAGE TANK.
CONNECT NEW TANK TO EXISTING PUMP.
EXISTING 1,000 GAL. U/G TANK
EXISTING FUEL ISLAND
EXISTING BUILDING
STORAGE AND PARKING
DRIVE WAY
WASHINGTON AVE.
O.K. W.E. Boyer 6/19/74
SAN LEANDRO RENTAL SERVICE
14273 WASHINGTON AVE. SAN LEANDRO
DATE JUNE 12, 1974
DRAWN BY Bobbie
APPROVED BY
SCALE NONE
REVISED
D. L. STEVENS INC.
990- 98 TH. AVE. OAKLAND, CALIF.
PROSED TANK ADDITION
DRAWING NUMBER
1866(7)-74-397

5/29/12

Facility Site Map/Storage Plan	Business Name: Apollo	Site Address: 14273 Washington Ave	Map #: 1



Scale: 1" = 25 Ft.

- STORM DRAINS
- FE Fire ext.
- WO Water shut off
- H Hydrant
- E Electrical SHUT OFF

Rev. 4/00

PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

September 08, 1998

PEL # 9809002

JACK QUARLE & ASSOCIATES, INC.

Attn: Jack Quarle

Re: One soil sample for Gasoline/BTEX with MTBE, and total Oil & Grease analyses.

Project location: 14273 Washington ave. - San Leandro, CA.

Date sampled: Aug 31, 1998
Date extracted: Sep 04-08, 1998

Date submitted: Sep 01, 1998
Date analyzed: Sep 04-08, 1998

RESULTS:

SAMPLE I.D.	Gasoline (mg/Kg)	MTBE (ug/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylene (ug/Kg)	Oil & Grease (mg/Kg)
SLR 1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	81.6%	---	88.4%	100.2%	86.8%	94.4%	---
Detection limit	1.0	5.0	5.0	5.0	5.0	5.0	10
Method of Analysis	5030 / 8015	8020	8020	8020	8020	8020	5520 D & F

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

September 08, 1998 PEL # 9809002

JACK QUARLE & ASSOCIATES, INC. Attn: Jack Quarle

Project location: 14273 Washington ave.- San Leandro, CA.
Sample I.D.: SVC-1

Date Sampled: Aug 31, 1998 Date Submitted: Sep 01, 1998
Date Analyzed: Sep 04-05, 1998

Method of Analysis: EPA 8010 Detection limit: 5.0 ug/Kg

COMPOUND NAME	CONCENTRATION (ug/Kg)	SPIKE RECOVERY (%)
Chloromethane	N.D.	-----
Vinyl Chloride	N.D.	83.7
Bromomethane	N.D.	-----
Chloroethane	N.D.	-----
Trichlorofluoromethane	N.D.	-----
1,1-Dichloroethene	N.D.	-----
Methylene Chloride	N.D.	-----
1,2-Dichloroethene (TOTAL)	N.D.	90.9
1,1-Dichloroethane	N.D.	-----
Chloroform	N.D.	86.4
1,1,1-Trichloroethane	N.D.	-----
Carbon Tetrachloride	N.D.	-----
1,2-Dichloroethane	N.D.	-----
Trichloroethene	N.D.	99.5
1,2-Dichloropropane	N.D.	-----
Bromodichloromethane	N.D.	-----
2-Chloroethylvinylether	N.D.	-----
Trans-1,3-Dichloropropene	N.D.	-----
Cis-1,3-Dichloropropene	N.D.	-----
1,1,2-Trichloroethane	N.D.	-----
Tetrachloroethene	N.D.	86.1
Dibromochloromethane	N.D.	-----
Chlorobenzene	N.D.	-----
Bromoform	N.D.	-----
1,1,2,2-Tetrachloroethane	N.D.	-----
1,3-Dichlorobenzene	N.D.	-----
1,4-Dichlorobenzene	N.D.	-----
1,2-Dichlorobenzene	N.D.	-----

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PRIORITY ENVIRONMENTAL LABS
Precision Environmental Analytical Laboratory

September 03, 1998 PEL # 9809002

JACK QUARLE & ASSOCIATES, INC.

Attn: Jack Quarle

Re: One soil sample for Gasoline/BTEX with MTBE, Diesel, and total Petroleum hydrocarbons analyses.

Project location: 14273 Washington ave. - San Leandro, CA.

Date sampled: Aug 31, 1998 Date submitted: Sep 01, 1998
Date extracted: Sep 01-03, 1998 Date analyzed: Sep 01-03, 1998

RESULTS:

SAMPLE I.D.	Gasoline (mg/Kg)	Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylene (ug/Kg)	TRPH (mg/Kg)
SLR 1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	81.6%	92.0%	88.4%	100.2%	86.8%	94.4%	---
Detection limit	1.0	1.0	5.0	5.0	5.0	5.0	10
Method of Analysis	5030 / 8015	3550 / 8015	8020	8020	8020	8020	418.1

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

September 03, 1998

PEL # 9809002

JACK QUARLE & ASSOCIATES

Attn: Jack Quarle

Project location: 14273 Washington ave. - San Leandro, CA.

Analysis : TTLC CAM 17 metals

Sample I.D.: SLR 1

Date Sampled: Aug 31, 1998
Date Analyzed: Sep 01-03, 1998

Date Submitted: Sep 01, 1998

Method of Analysis: EPA 6010

CODE	METAL	CONCENTRATION (mg/Kg)	DETECTION LIMIT (mg/Kg)
Ag	Silver	N.D.	0.05
As	Arsenic	N.D.	0.01
Ba	Barium	1.8	0.05
Be	Berryllium	N.D.	0.01
Cd	Cadmium	0.9	0.01
Co	Cobalt	N.D.	0.05
Cr	Chromium	3.2	0.05
Cu	Copper	3.1	0.05
Hg	Mercury	N.D.	0.002
Mo	Molybdenum	N.D.	0.05
Ni	Nickel	11	0.05
Pb	Lead	2.6	0.10
Sb	Antimony	N.D.	0.10
Se	Selenium	N.D.	0.01
Tl	Thallium	N.D.	0.20
V	Vanadium	N.D.	0.05
Zn	Zinc	18	0.05

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Norman Herrold 510 4302735

Project Manager: Phone #:

Address: 14273 Washington Ave FAX #: 510 4302841

Project Number: San Leandro CA Project Name: S.L. Rentz

Project Location: San Leandro Sampler Signature: Norman Herrold

Sample ID	Lab # (Lab use only)	# CONTAINERS	Volume/Amount	Matrix: WATER	Matrix: SOIL	Matrix: AIR	Matrix: SLUDGE	Matrix: OTHER	Method Preserved: HCl	Method Preserved: HNO3	Method Preserved: ICE	Method Preserved: NONE	Method Preserved: OTHER	Sampling: DATE	Sampling: TIME	BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015 or 8270)	TPH as Jetfuel (8015 or 8270)	Total Oil & Grease (413.1)	Total Oil & Grease (413.2)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080-PCBs Only	EPA 624/8240	EPA 625/8270	CAM - 17 Metals	EPTOX - 8 Metals	EPA - Priority Pollutant Metals	LEAD(7420/7421/239.2)	ORGANIC LEAD	MTBE	PRIORITY ONE SERVICE (24 hr)	EXPEDITED SERVICE (2-4 days)	VERBALS/FAX	SPECIAL DETECTION LIMITS (SPECIFY)	SPECIAL REPORTING REQUIREMENTS
SLR 1					X						X			8/31/98	1 PM		X	X		X		X	X						X					X					

ANALYSIS REQUEST

OTHER

SPECIAL HANDLING

PEL # 9809002

INV # 28528

Rec Carol

On 09/04/98

@ 1:30 PM

Relinquished by:	Date	Time	Received by:
Norman Herrold			
Relinquished by	Date	Time	Received by:
Relinquished by	Date	Time	Received by Laboratory: [signature] (P.E.L) 9-01-98 11:10 AM

Remarks:

2077 EDISON AVENUE/P.O. BOX 2215
SAN LEANDRO, CA 94577-0340
PHONE: (510) 430-2735
FAX: (510) 430-2841

J. QUARLE' & ASSOCIATES, INC.

Fax

To: SAN LEANDRO FIRE DEPARTMENT **From:** JACK

Att: CARL BUCHE **Pages:** 4

Fax: 577-3295 **Date:** 09/03/98

Re: TANK PULL, SAN LEANDRO RENTAL **CC:**

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

OK TO BACKFILL?

Where are the VOC analyses?

PRIORITY ENVIRONMENTAL

Precision Environmental Analytical laboratory

September 03, 1998 PEL # 9805

JACK QUARLE & ASSOCIATES, INC.

Attn: Jack Quarle

Re: One soil sample for Gasoline/BTEX with MTBE, Diesel, and total Petroleum hydrocarbons analyses.

Project location: 14273 Washington ave. - San Leandro, CA.

Date sampled: Aug 31, 1998 Date submitted: Sep 01,
Date extracted: Sep 01-03, 1998 Date analyzed: Sep 01-0

RESULTS:

SAMPLE I.D.	Gasoline (mg/Kg)	Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylene (ug/Kg)	TH (mg/
SLR 1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.
Spiked Recovery	81.6%	92.0%	88.4%	100.2%	86.8%	94.4%	--
Detection limit	1.0	1.0	5.0	5.0	5.0	5.0	1
Method of Analysis	5030 / 8015	3550 / 8015	8020	8020	8020	8020	41

David Duong
Laboratory Director

PRIORITY ENVIRONMENTAL L

Precision Environmental Analytical Laboratory

September 03, 1998 PEL #

JACK QUARLE & ASSOCIATES

Attn: Jack Quarle

Project location: 14273 Washington ave. - San Leandro, CA.

Analysis : TTLC CAM 17 metals

Sample I.D.: SLR 1

Date Sampled: Aug 31, 1998 Date Submitted: Sep 01,
Date Analyzed: Sep 01-03, 1998

Method of Analysis: EPA 6010

CODE	METAL	CONCENTRATION (mg/Kg)	DETECTION LIMIT (mg/Kg)
Ag	Silver	N.D.	0.05
As	Arsenic	N.D.	0.01
Ba	Barium	1.8	0.05
Be	Berrylliium	N.D.	0.01
Cd	Cadmium	0.9	0.01
Co	Cobalt	N.D.	0.05
Cr	Chromium	3.2	0.05
Cu	Copper	3.1	0.05
Hg	Mercury	N.D.	0.002
Mo	Molybdenum	N.D.	0.05
Ni	Nickel	11	0.05
Pb	Lead	2.6	0.10
Sb	Antimony	N.D.	0.10
Se	Selenium	N.D.	0.01
Tl	Thallium	N.D.	0.20
V	Vanadium	N.D.	0.05
Zn	Zinc	18	0.05

David Duong
Laboratory Director

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Norman Herrold
Phone #: 510 430 2735
Address: 14273 Washington Ave
FAX #: 510 430 2841
Project Number: San Leandro CA
Project Name: Sh. Butts
Project Location: San Leandro
Sampler Signature: Norman Herrold

Sample ID	Lab # (Lab use only)	# CONTAINERS	Volume/Amount	Matrix: WATER	Matrix: SOIL	Matrix: AIR	Matrix: SLUDGE	Matrix: OTHER	Method Preserved: HCl	Method Preserved: HNO3	Method Preserved: ICE	Method Preserved: NONE	Method Preserved: OTHER	Sampling: DATE	Sampling: TIME	BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015 or 8270)	TPH as Jetfuel (8015 or 8270)	Total Oil & Grease (413.1)	Total Oil & Grease (413.2)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080 PCBs Only	EPA 624/8240	EPA 625/8270	CAM - 17 Metals	EPTOX - 8 Metals	EPA - Priority Pollutant Metals	LEAD(7420/7421/239.2)	ORGANIC LEAD	OTHER	PRIORITY ONE SERVICE (24 hr)	EXPEDITED SERVICE (2-4 days)	VERBALS/FAX	SPECIAL DETECTION LIMITS (SPECIFY)	SPECIAL REPORTING REQUIREMENTS
SLR1					X						X			8/31/98	1 P		X	X				X							X										

PEL # 9809002
INV # 28528

Relinquished by: Norman Herrold
Date
Time
Received by:
Remarks:

UNDERGROUND STORAGE TANK CLOSURE REPORT Rev 5/91

Facility Name San Leandro Rental Address 14273 Wash. Date 8-31-98

Inspector Busche Arrival Time 1:00 PM Departure Time 2:00-

Contact at Site Norma Company F Quarle

	Tank 1	Tank 2	Tank 3	Tank 4
Tank Content	waste oil			
Tank Size (gal)	550 /			
% LEL / % O2	0 / 5<			
Lbs Dry Ice	50 LBS			
Corrosion/Holes	Y / Y			
No. of Samples	1			
Soil odor/color	N / N			

Piping: Supply ____ Vapor Return ____ Vent ____ Piping Removed: none observed

Piping Sampled: ____ No. of samples: ____ Sample odor/color: ____

Site Map	Sample Description
See site MAP:	#1 soil sample 2" into native #2 #3 #4 #5 #6 #7 #8

Comments: waste oil tank Rusty + poor Condition. Soil sample had no odor or color. soil sample was in clay

Reviewed By _____ 98/113

Approval Date _____

Rejection Date _____

City of San Leandro
Hazardous Materials Division
835 East 14th Street
San Leandro, CA 94577
(510) 577-3319

Rev 2/98

Date Received 8/19/98

Fees Paid 260.00

UNDERGROUND STORAGE TANK CLOSURE PLAN/PERMIT

1. Facility Name: SAN LEANDRO RENTAL Address: 14273 WASHINGTON AVENUE

   Contact Person: NORMAN HERROLD Phone No.: 510-430-2735

   Generator's U.S. EPA Number: CAL 000060805

2. Contractor: J. QUARLE'/BLUEWATER ENVIRONMENTAL License Type & No.: 631366 B,C, ASB HAZ

   Address: P.O. BOX 2215, SAN LEANDRO, CA 94577-0340

   Contact Person: NORMAN HERROLD Phone No.: 510-430-2735

3. Sampling to be performed by: NORMAN HERROLD Phone No.: 510-430-2735

4. Laboratory services to be provided by: PRIORITY ENVIRONMENTAL

   DOHS Certificate No.: 1708 Phone No.: 408-946-9636

5. Tank Hauler: ECI EPA ID No.: CAD 982030173

   Address: 255 PARR BOULEVARD, RICHMOND, CA 94801 Phone No.: 510-235-1393

   Destination of Tank(s): ECI FOR RECYCLING

6. Method of inerting tank(s): DRY ICE

7. Type of explosimeter or combustible gas meter to be provided: GASTECH

8. Tanks to be removed:

	Size	Content	Material of Construction	Age	Sample Analysis Method
Tank 1	550 ~~300~~ GAL	EMPTY	STEEL	30+/-	TPHg, TPHd, BTEX, O&G,
Tank 2					METALS
Tank 3					
Tank 4					
Piping					

I acknowledge receipt and agree to comply with the San Leandro Fire Department Underground Storage Tank Closure Requirements. I declare under penalty of perjury that the aforementioned information is true and correct, to the best of my knowledge.

Company Name: J. QUARLE' & ASSOCIATES/BLUEWATER Address: P.O. BOX 2215, SAN LEANDRO, CA 94577-034

Applicant's Signature Jack Quarle Date 8-18-98

Number of Tanks Removed 1 Inspector Kal Bush Date 8-31-98

Underground Storage Tank Removal
Supplemental Questionnaire

1. Is the removal part of a new subdivision? Yes ( ) No (X)

2. Is the site located within a 100-year or a 500-year Flood Zone as shown on the FEMA "Flood Insurance Rate Map" for San Leandro?

   No (X) 100-year ( ) 500-year ( )

3. Estimated ground surface area to be excavated? 8 FOOT BY 10 FOOT

4. Yards of Cut: 1.5 Yards of Fill: 16 Total Yards Moved: 12

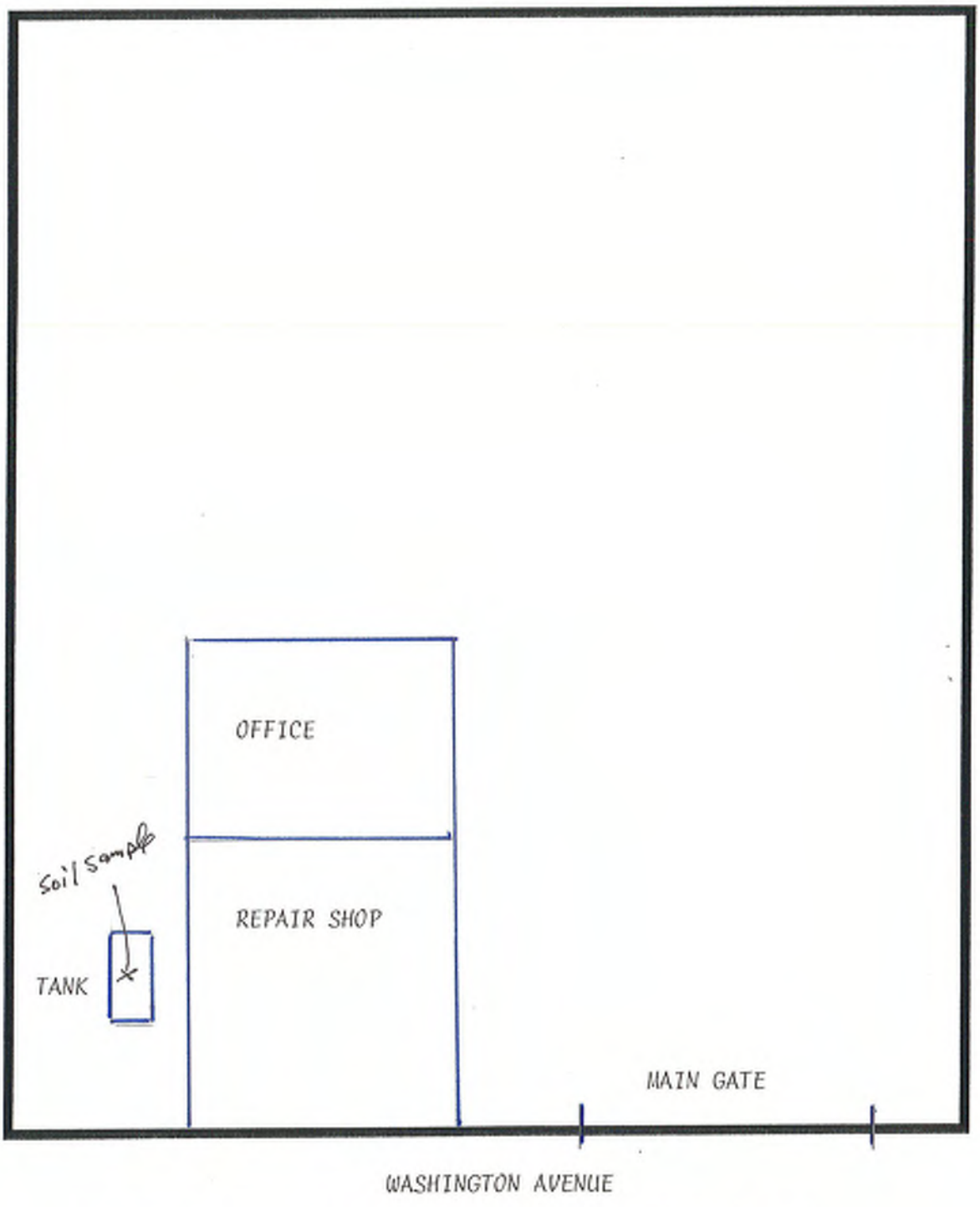
5. List public streets proposed to be traveled for export hauling: WASHINGTON AVENUE AND HWY 880

6. Will the excavation be within 15 ft of a property line? Yes (X) No ( )

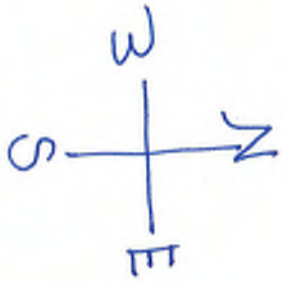
7. Will the excavation be within 15 ft of a building? Yes (X) No ( )

SITE PLAN

14273 WASHINGTON AVENUE



PLEASE NOTE TANK LOCATION, BUILDINGS, STREETS, ETC.



State of California
CONTRACTORS STATE LICENSE BOARD
ACTIVE LICENSE

License Number **631366** Entity **CORP**

Business Name **BLUEWATER ENVIRONMENTAL SERVICES INC**

Classification(s) **B ASB HAZ C21 C33**

Expiration Date **12/31/1999**

State of California

Contractors State License Board

Pursuant to Chapter 9 of Division 3 of the Business and Professions Code
and the Rules and Regulations of the Contractors State License Board,
the Registrar of Contractors does hereby issue this license to:

BLUEWATER ENVIRONMENTAL SERVICES INC

to engage in the business or act in the capacity of a contractor
in the following classification(s):

B - GENERAL BUILDING CONTRACTOR
ASB - ASBESTOS

State of California Department of Consumer Affairs

Witness my hand and seal this day,
December 29, 1993

Issued October 30, 1991

Reissued December 28, 1993

Signature of Licensee

Signature of License Qualifier

Registrar of Contractors

Reassigned 631366

License Number

This license is the property of the Registrar of Contractors, is not transferrable, and shall be returned to the Registrar upon demand when suspended, revoked, or invalidated for any reason. It becomes void if not renewed.

10-01-1997 9:34AM FROM

STATE OF CALIFORNIA
STATE AND CONSUMER SERVICES AGENCY CONTRACTORS STATE LICENSE BOARD

Consumer Affairs

Building Quality

HAZARDOUS SUBSTANCES REMOVAL AND REMEDIAL ACTIONS CERTIFICATION

Pursuant to the provisions of Section 7058.7 of the Business and Professions Code, the Registrar of Contractors does hereby certify that the following qualifying person has successfully completed the hazardous substances removal and remedial actions examination.

Qualifier: CHRIS JOSEPH KIRSCHENHEUTER

License No.: 631366

Business Name: BLUEWATER ENVIRONMENTAL SERVICES, INC.

WITNESS my hand and official seal this
14TH day of MARCH 1996

Registrar of Contractors

This certification is the property of the Registrar of Contractors, is not transferable, and shall be returned to the Registrar upon demand when suspended, revoked, or invalidated for any reason.

A 631366

10-01-1997 9:35AM FROM

BUSINESS LICENSE

CITY OF SAN LEANDRO
835 EAST 14th STREET
SAN LEANDRO, CALIFORNIA 94577

FINANCE OFFICE
OFFICE HRS. MON-FRI 8:30-5:00
(510) 577-3381, 577-3378, 577-3392

Expires Dec. 31 1998

GROUP	BUSINESS LICENSE NUMBER
III	8989

BUSINESS NAME
LOCATED AT QUARLE, J ASSOC INC
TYPE OF BUSINESS 2077 EDISON AV
SERVICE

MAIL ADDRESS

QUARLE, J ASSOC INC
P O BOX 2215
SAN LEANDRO, CA 94577

FINANCE DIRECTOR

BUSINESS LICENSE INFORMATION:

- **This form is your San Leandro business license.**
- It is not required that this license be posted. However, upon request, a business owner or agent shall display the business license to a City officer or agent of the City or any customer.
- Change of ownership or address will require that a new business license application be completed.
- A separate license must be obtained for every location at which any portion of the business is conducted.
- It is unlawful to distribute or circulate advertising matter without having obtained a permit to do so.
- This license is effective for the calendar year, and shall expire on December 31, of the year issued.
- IF YOU DISCONTINUE DOING BUSINESS IN SAN LEANDRO, you must notify the Finance Office in writing to officially close your license.
- The City is committed to outstanding service in support of the business community. For information or assistance, call the Finance Department at 577-3392, 577-3378 or 577-3381.

CITY OF SAN LEANDRO INCORPORATED 1872

RECEIVED FEB 2 1998

NB

STATE COMPENSATION INSURANCE FUND

P.O. BOX 807, SAN FRANCISCO,CA 94101-0807

CERTIFICATE OF WORKERS' COMPENSATION INSURANCE

ISSUE DATE: **09-01-97**

POLICY NUMBER: **1272298 - 97**
CERTIFICATE EXPIRES: **09-01-98**

CITY OF SAN LEANDRO
CIVIC CENTER-835 EAST 14TH ST.
835 E. 14TH ST.
SAN LEANDRO CA 94577

This is to certify that we have issued a valid Workers' Compensation insurance policy in a form approved by the California Insurance Commissioner to the employer named below for the policy period indicated.

This policy is not subject to cancellation by the Fund except upon **10** days' advance written notice to the employer.

We will also give you **10** days' advance notice should this policy be cancelled prior to its normal expiration.

This certificate of insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term, or condition of any contract or other document with respect to which this certificate of insurance may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, exclusions and conditions of such policies.

Kenneth C Bollier
PRESIDENT

EMPLOYER'S LIABILITY LIMIT INCLUDING DEFENSE COSTS: $1,000,000.00 PER OCCURRENCE.

EMPLOYER

LEGAL NAME

J. QUARLE & ASSOCIATES INC
P O BOX 2215
SAN LEANDRO CA 94577

J. QUARLE & ASSOCIATES, INC

PRINTED: 08-20-97 PO410

THIS DOCUMENT HAS A BLUE PATTERNED BACKGROUND

SCIF 10265 (REV. 2-95)

Sent. 8-18-98

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 ELLIS STREET
SAN FRANCISCO, CALIFORNIA 94109
(415) 771-6000

REGULATION 8, RULE 40
Aeration of Contaminated Soil and Removal of Underground Storage Tanks

NOTIFICATION FORM

X Removal or Replacement of Tanks
___ Excavation of Contaminated Soil

SITE INFORMATION

SITE ADDRESS 14273 WASHINGTON AVENUE

CITY, STATE SAN LEANDRO, CA ZIP 94577

OWNER NAME VIC BALDI

SPECIFIC LOCATION OF PROJECT IN ALLEY ALONG SOUTH SIDE OF PROPERTY

TANK REMOVAL

SCHEDULED STARTUP DATE 8-26-98

VAPORS REMOVED BY:

[ ] WATER WASH
[XX] VAPOR FREEING (CO^2)
[ ] VENTILATION

CONTAMINATED SOIL EXCAVATION

SCHEDULED STARTUP DATE _____

STOCKPILES WILL BE COVERED? YES ___ NO ___

ALTERNATIVE METHOD OF AERATION (DESCRIBE BELOW):

_____
(MAY REQUIRE PERMIT)

CONTRACTOR INFORMATION

NAME J. QUARLE'/BLUEWATER ENVIRONMENTAL CONTACT NORMAN HERROLD

ADDRESS 2077 EDISON AVENUE PHONE (510) 430-2735

CITY, STATE, ZIP SAN LEANDRO, CA 94577

CONSULTANT INFORMATION
(IF APPLICABLE)

NAME _____ CONTACT _____

ADDRESS _____ PHONE ( ) _____

CITY, STATE, ZIP _____

FOR OFFICE USE ONLY

DATE RECEIVED FAX _____ BY _____ (init.)

DATE POSTMARKED _____ BY _____ (init.)

CC: INSPECTOR NO. _____ DATE _____ BY _____ (init.)

UPDATE: CONTACT NAME _____ DATE _____ BY _____ (init.)

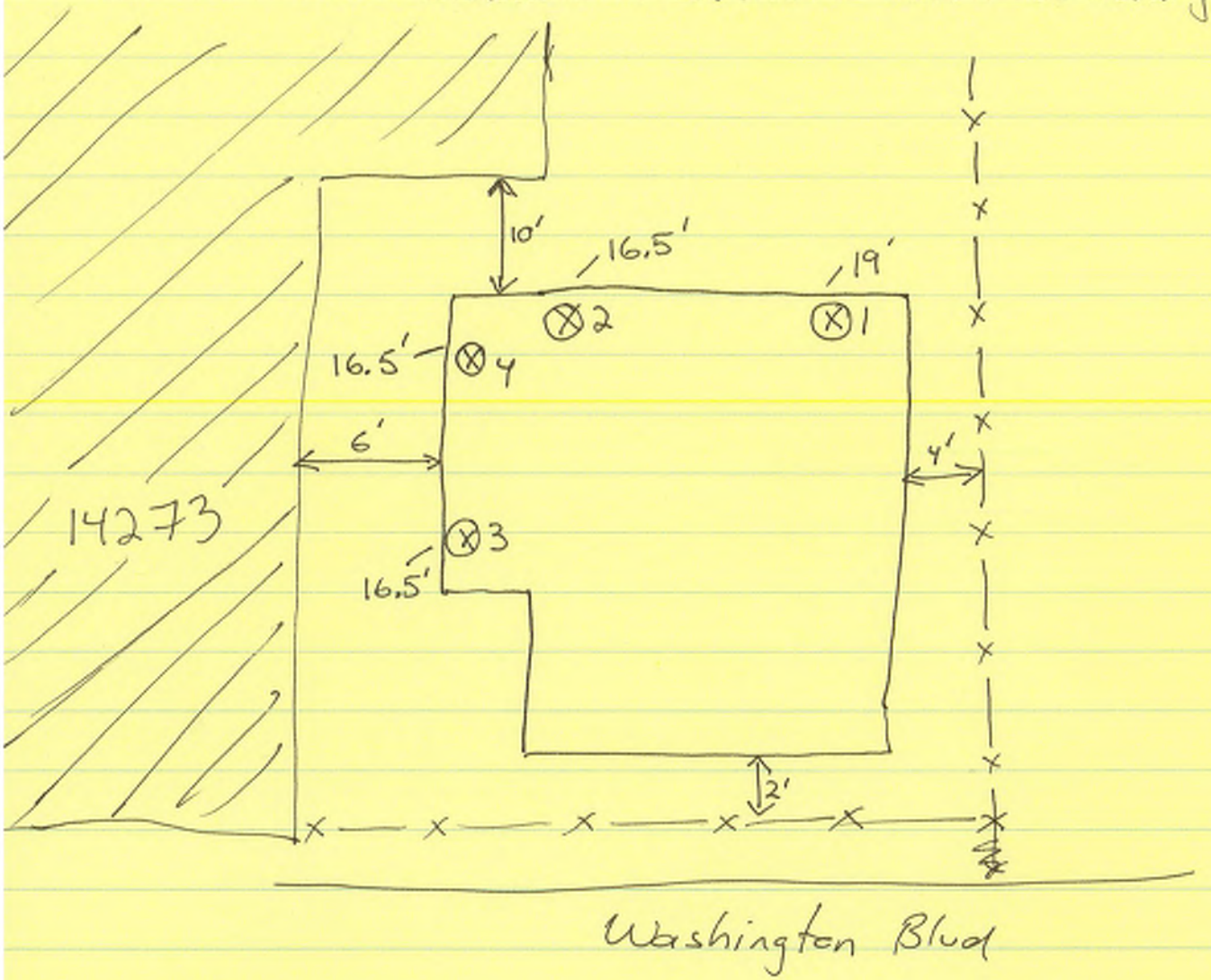
BAAQMD N # _____ DATA ENTRY _____

/91

• See reverse for instructions

6/17/92

San Leandro Rentals - 14273 Washington



Overexcavation sampling - NW corner still appears contaminated. Samples collected at base of excavation

UNDERGROUND STORAGE TANK ~~CLOSURE REPORT~~ Re-sampling Rev 5/91

Facility Name SAN LEANDRO Rental Address _____ Date 6/03/92

Inspector K. Busche Arrival Time 2:05 Departure Time _____

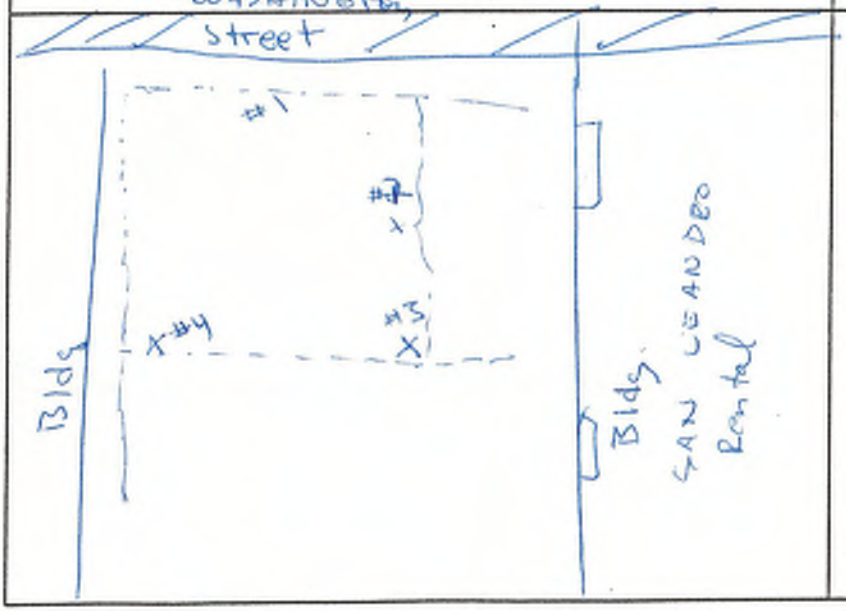
Contact at Site Jack Quarle Company _____

	Tank 1	Tank 2	Tank 3	Tank 4
Tank Content				
Tank Size (gal)				
% LEL / % 02				
Lbs Dry Ice				
Corrosion/Holes				
No. of Samples				
Soil odor/color				

Piping: Supply ____ Vapor Return ____ Vent ____ Piping Removed: ____

Piping Sampled: ____ No. of samples: ____ Sample odor/color: _____

Site Map



Sample Description

#1 soil sample 18' no odor/no color

#2 soil sample 18' no odor/no color

#3 soil sample 18' odor + color - strong

#4 soil sample 18' strong odor + strong

#5 _____

#6 _____

#7 _____

#8 _____

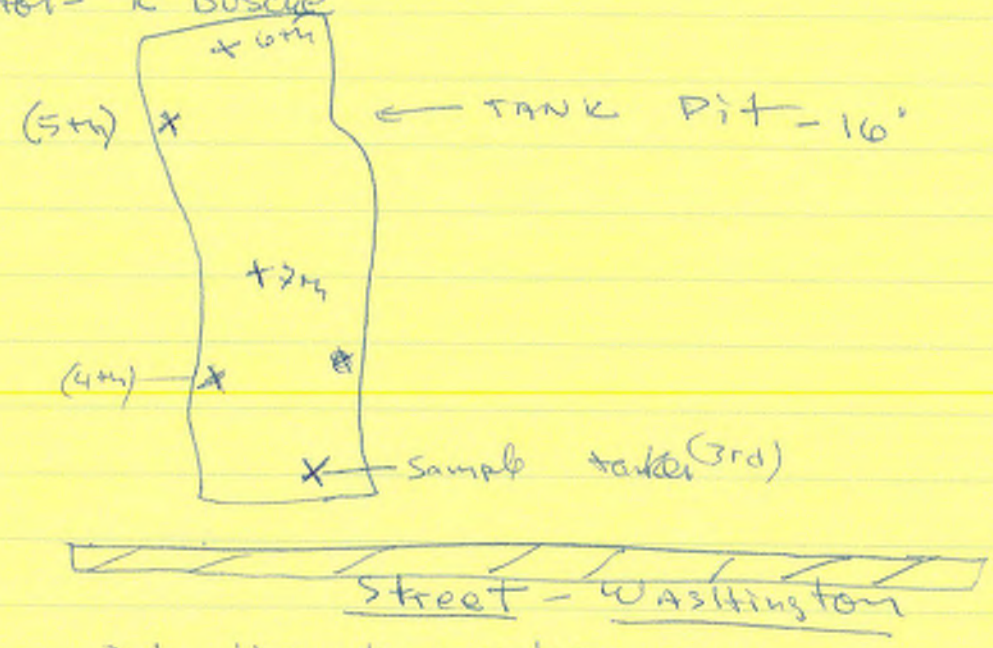
Comments: 3 ea composite stock pile samples taken

Sample #1
6-03-92, no odor + oscolor

SAN LEANDRO Rental -5-01-92

11:00 AM.

Inspector- K Buscke



3rd - list odor + color

4th - Sample - strong Odor + Color

5th - Sample - Strong Odor + Color

~~4th~~ ~~5th~~ 6

6th - SAMPLE - strong Odor

7th - SAMPLE - bottom of TANK Pit

Comments- 1st & two samples were witnessed by Mike, Depth of Pit 16'. All samples taken on side wall with the exception of #7

Reviewed By KB

Approval Date 4-1

Rejection Date _____

San Leandro Fire Department
Hazardous Materials Division
835 East 14th Street
San Leandro, CA 94577
(415) 577-3331

Rev 4/91

Date Received 3/31/92

Fees Paid 275.00

UNDERGROUND STORAGE TANK CLOSURE PLAN/PERMIT

1. Facility Name: SAN LEANDRO RENTAL Address: 14273 WASHINGTON AVENUE

   Contact Person: _____ Phone No.: 357-5900

   Generator's U.S. EPA Number: CAL 000060805

2. Contractor: HILLVIEW ENGINEERING License Type & No.: GENERAL 585828

   Address: 620 MARINA BOULEVARD, SAN LEANDRO, CA 94577

   Contact Person: JACK QUARLE' Phone No.: 895-1474

3. Sampling to be performed by: J. QUARLE' & ASSOC. INC. Phone No.: 895-1474

4. Laboratory services to be provided by: MCCAMPBELL ANALYTICAL

   DOHS Certificate No.: #1644 Phone No.: 798-1620

5. Tank Hauler: TRIDENT TRUCKLINES, INC. EPA ID No.: 2773

   Address: P.O. BOX B, GUSTINE, CA 95322 Phone No.: 209-854-3700

   Destination of Tank(s): ERICKSON INCORPORATED

6. Method of inerting tank(s): DRY ICE

7. Type of explosimeter or combustible gas meter to be provided: GAS TECH

8. Tanks to be removed:

	Size	Content	Material of Construction	Age	Sample Analysis Method
Tank 1	5,000	GAS	STEEL		TPH-G-D-BTEX
Tank 2	1,000	DIESEL	STEEL		TPH-G-D-BTEX
Tank 3					
Tank 4					
Piping					

I acknowledge receipt and agree to comply with the San Leandro Fire Department Underground Storage Tank Closure Requirements. I declare under penalty of perjury that the aforementioned information is true and correct, to the best of my knowledge.

Company Name: J. QUARLE' & ASSOC. INC. Address: 620 MARINA BOULEVARD, SAN LEANDRO

Applicant's Signature Paul Quarle' Date 3-31-92

Number of Tanks Removed 2 Inspector Karl Buscke Date 4/7/92

UNDERGROUND STORAGE TANK CLOSURE REPORT Rev 5/91

Facility Name ~~Hillview Eng.~~ SAN LEANDRO Rental Address 1473 Washington Date 4-7-92

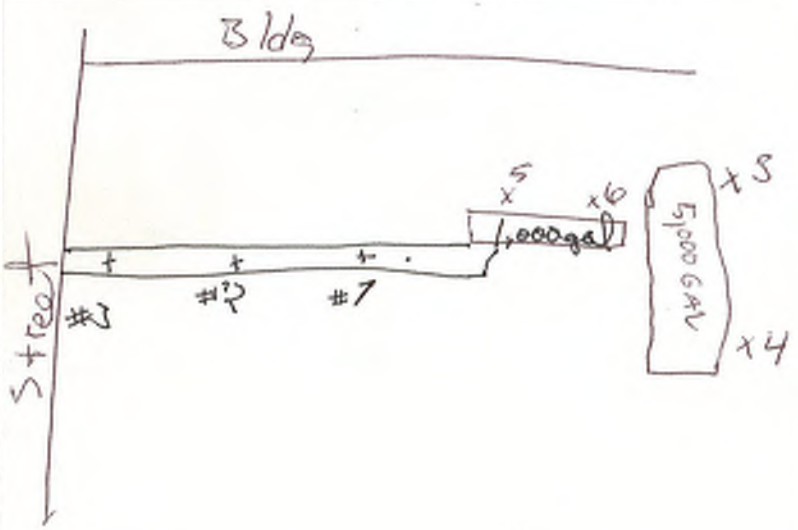
Inspector K Bosche Arrival Time 1:15 P.M. Departure Time 4:00 P.M.

Contact at Site Norman Company Hillview ENG.

	Tank 1	Tank 2	Tank 3	Tank 4
Tank Content	GAS	Diesel		
Tank Size (gal)	1,000	5,000		
% LEL / % O2	3%/ 4%	42%/ 16%		
Lbs Dry Ice	100lbs	100lbs		
Corrosion/Holes	no/ not visable	no/ no visable		
No. of Samples	2	2		
Soil odor/color	no / BLK	no / brn		

Piping: Supply ____ Vapor Return no Vent yes, Removed Piping Removed: yes

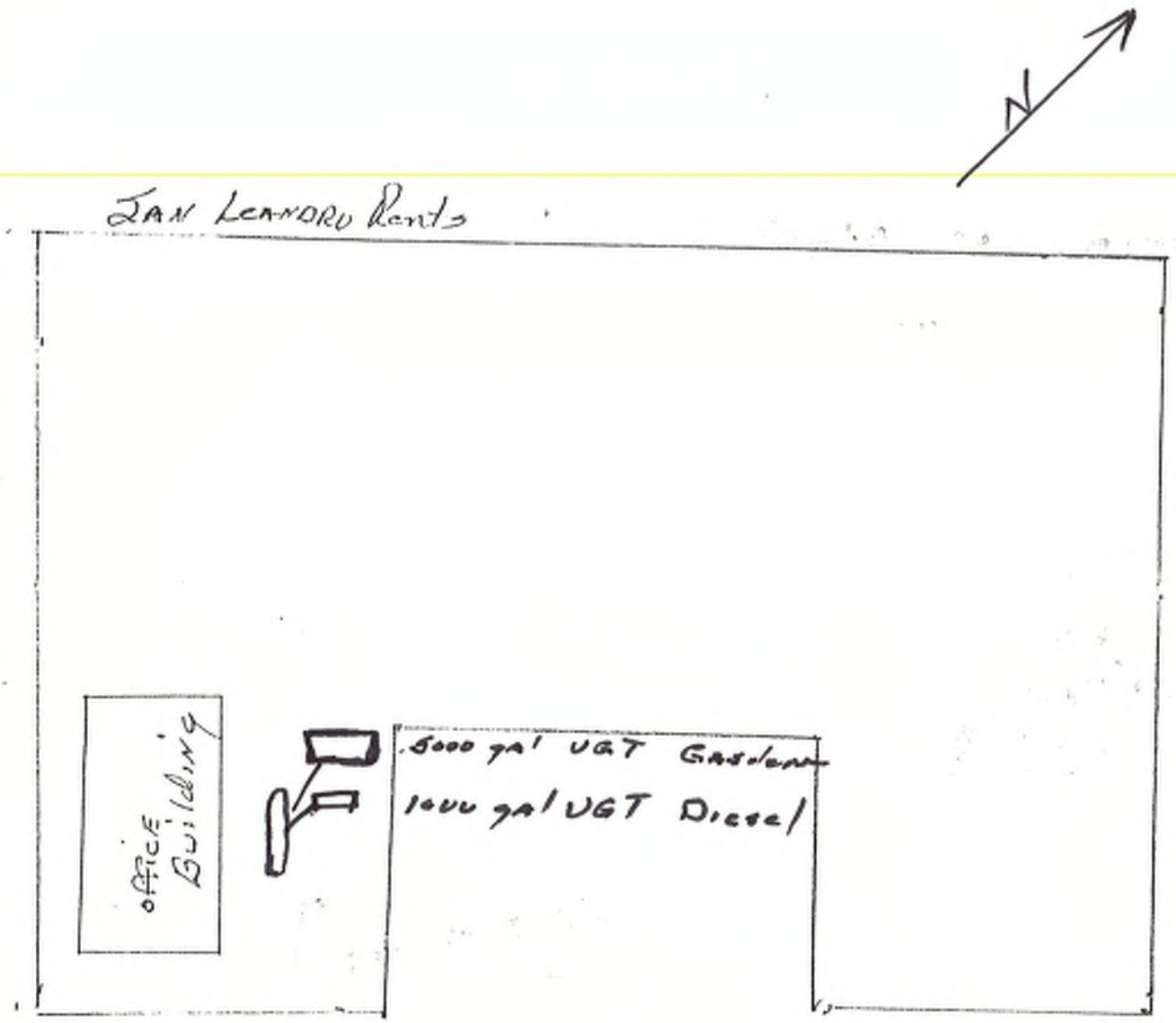
Piping Sampled: yes No. of samples: 3 Sample odor/color: Blk / yes

Site Map	Sample Description
	#1 Soil Sample - Trench 2' native #2 Soil Sample - Trench 2' native #3 Soil sample - Trench 2' native #4 Soil sample - Tank 2' native #5 soil sample - Tank 2' native #6 Soil sample - Tank 2 native #7 #8

Comments: tank 1 + 2 - sand backfill, both tanks tar wrapped no visable holes in both tanks, 3 day turnaround for samples

J. QUARLE' & ASSOCIATES
620 Marina Boulevard
San Leandro, CA 94577

(510) 895-1474
FAX (510) 895-1477



14273 Washington Ave
San Leandro. CA

J. QUARLE' & ASSOCIATES
620 Marina Boulevard
San Leandro, CA 94577

(510) 895-1474
FAX (510) 895-1477
April 24, 1992

San Leandro Fire Department
Hazardous Materials Division
835 East 14th Street
San Leandro, CA 94577

SAN LEANDRO RENTAL
14273 WASHINGTON AVENUE

Dear Mike:

On April 7, 1992 J. Quarle' & Associates, Inc. removed two underground storage tanks and approximately forty feet of pipeline.

This pipeline had serviced a 1,000 gallon diesel tank located directly east of the fuel island. This tank was removed in 1991 by Scott Company. Review of San Leandro Rentals documentation pertaining to the 1991 tank removal show that some contaminated soil still remained. This fact coupled with the results of the sample taken adjacent to the former tank location (460 ppm) has prompted the owners to choose to excavate the affected soils.

It is anticipated that excavation will be slightly larger than the original and possibly twenty feet deep. We expect to encounter ground water near this depth. Excavated soils will be separated clean backfill vis a vis native clean or contaminated. Samples of spoils piles as well as sidewall and water samples will be analyzed for TPH Diesel and BTEX.

A minimum of one sample will be taken from each sidewall at the interface with ground water, a grab sample from the groundwater and one sample from each fifty yards of excavated soil.

The work is scheduled to begin Monday April 27, 1992 and should take two or three days to complete. Sampling will be performed by JQ&A personnel and sample analysis will be performed by Sequoia Analytical's mobile lab if scheduling permits.

Sincerely,

J. QUARLE' & ASSOCIATES, INC.

Jack Quarle', President

Enclosure

JQ/cn

FIRE DEPARTMENT
APR 23 1992
CITY OF SAN LEANDRO

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

J. Quarle & Associates 620 Marina Blvd. San Leandro, CA 94577	Client Project ID: San Leandro Rents; 14273 Washington Ave, San Leandro	Date Sampled: 04/07/92
		Date Received: 04/08/92
	Client Contact: Jack Quarle	Date Extracted: 04/08/92
	Client P.O:	Date Analyzed: 04/08/92

Low Boiling Point TPH* (as Gasoline) and BTEX*

DOHS LUFT procedure; EPA method 5030, modified 8020 & 602

Lab ID	Client ID	Matrix	TPH(G)+	Benzene	Toluene	Ethyl Benzene	Xylenes	% Rec. Surrogate
120305	SLPL-4-1	S	---	ND	ND	ND	ND	97
120306	SLPL-4-2	S	---	ND	ND	ND	ND	98
120307	SLPL-4-3	S	---	ND < 0.025	ND < 0.025	0.065	0.089	89
120308	SLTP-10-1	S	ND	ND	ND	ND	ND	98
120309	SLTP-10-2	S	ND	ND	ND	ND	ND	99
120310	SLTP-13-1	S	ND	ND	ND	ND	ND	101
120311	SLTP-13-2	S	ND	ND	ND	ND	ND	100
Detection Limit unless otherwise stated; ND means Not Detected		W	50 ug/L	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.005	0.005	0.005	0.005	

*water samples are reported in ug/L and soils in mg/kg

#cluttered chromatogram; sample peak co-elutes with surrogate peak

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) predominately unmodified or weakly modified gasoline; b) heavier gasoline range compounds predominate (aged gasoline?); c) lighter gasoline range compounds predominate (the most mobile gas compounds); d) heavy and light gasoline range compounds predominate (aged gasoline together with introduced light compounds?); e) one to a few isolated peaks predominate; f) gasoline range compounds together with higher boiling point (diesel range) compounds; g) diesel range compounds predominate.

EH Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

J. Quarle & Associates 620 Marina Blvd. San Leandro, CA 94577	Client Project ID: San Leandro Rents; 14273 Washington Ave, San Leandro	Date Sampled: 04/07/92
		Date Received: 04/08/92
	Client Contact: Jack Quarle	Date Extracted: 04/08/92
	Client P.O:	Date Analyzed: 04/08/92

Medium Boiling Point TPH (as Diesel) *

DOHS LUFT procedure; modifed EPA method 3550 or 3510

Lab ID	Client ID	Matrix	TPH(D)+
120305	SLPL-4-1	S	ND
120306	SLPL-4-2	S	ND
120307	SLPL-4-3	S	460,a
120308	SLTP-10-1	S	ND,a
120309	SLTP-10-2	S	ND
120310	SLTP-13-1	S	ND
120311	SLTP-13-2	S	ND
Detection Limit unless otherwise stated; ND means Not Detected		W	50 ug/L
		S	10 mg/kg

*water samples are reported in ug/L and soils in mg/kg

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) predominately diesel compounds; b) diesel range compounds together with gasoline range compounds; c). diesel range compounds together with very low boiling point compounds; d) gasoline range compounds predominate; e) medium boiling point pattern that does not match diesel; f) peaks elute in the diesel range but no pattern is present; g) one to a few isolated peaks predominate.

EH Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT

Date: 04/08/92 Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
TPH (gas)	0.00	1.97	1.90	2.03	97	94	3.4
Benzene	0.00	0.23	0.242	0.2	115	121	5.1
Toluene	0.00	0.218	0.224	0.2	109	112	2.7
Ethyl Benzene	0.00	0.216	0.224	0.2	108	112	3.6
Xylenes	0.00	0.652	0.666	0.6	109	111	2.1
TPH (diesel)	0	137	133	150	91	89	3.1
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

CHAIN OF CUSTODY REPORT

CLIENT: San Leandro Rents

ADDRESS: 14273 Washington Ave S.L.

PHONE: 510 357 5900

PROJECT NAME/SITE: Same

SAMPLER: Norman Herrold

DATE: 4-7-92

REPORT TO: Jack Quarle

BILLING TO: Jack Quarle / Assoc

TURNAROUND TIME:

				8 HR.	
24 HR.		48 HR.	X	72 HR.	
5 DAY		10 DAY		15 DAY	

PO#/BILLING REFERENCE:

ANALYSIS REQUESTED

SAMPLE ID#/ STATION	SAMPLE DESCRIPTION	NUMBER OF CONT.	TYPE CONT.	SAMPLING TIME/DATE	TPH D BETEX	TPH G/D BETEX	TPH G/D BETEX	REMARKS	SAMPLE NUMBER
5LPL-4-1	S	1		3P 4-7-92					No. 120305
5LPL-4-2	S	1		3P 4-7-92					No. 120306
5LPL-4-3	S	1		3P 4-7-92					No. 120307
5LTP-10-1	S	1		330P 4-7-92					No. 120308
5LTP-10-2	S	1		330P 4-7-92					No. 120309
5LTP-13-1	S	1		345P 4-7-92					No. 120310
5LTP-13-2	S	1		345P 4-7-92					No. 120311

ICE/T° ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓

PRESERVATIVE VOAS | O & G | METALS | OTHER
APPROPRIATE CONTAINERS ✓

RELINQUISHED BY	DATE	TIME:	RECEIVED BY:
Norman Herrold	4-8-92	855 am	Andrew J. Dale CCX
Andrew J. Dale CCX	4-8-92	10:03	[illegible]
			RECEIVED IN LAB BY:

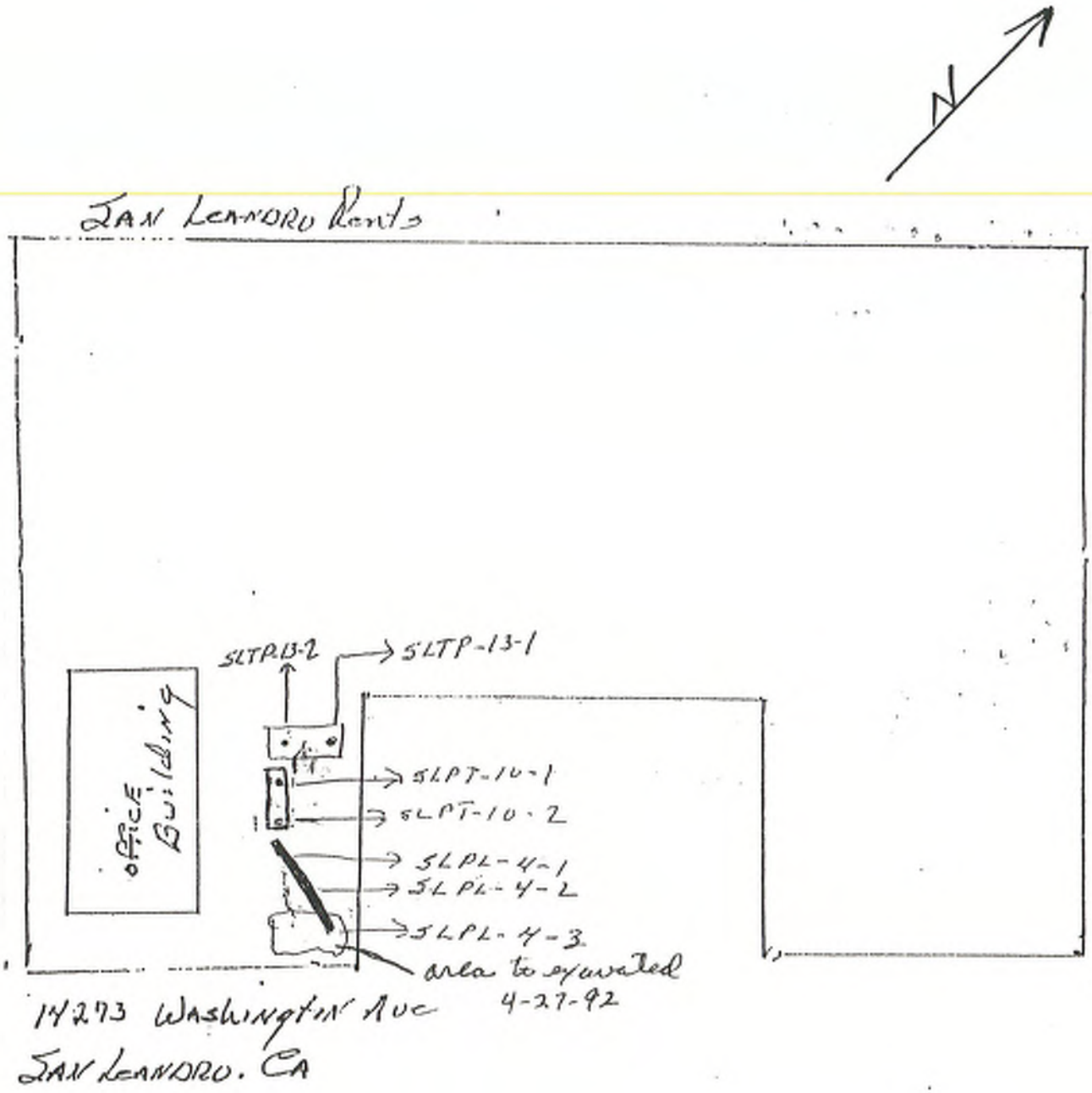
TRAVEL TIME:
ON SITE TIME:
OTHER:

	YES	NO
WERE SAMPLES:		
PRESERVED ?		
IN GOOD CONDITION?		

J. QUARLE' & ASSOCIATES
620 Marina Boulevard
San Leandro, CA 94577

(510) 895-1474
FAX (510) 895-1477

Sample Map



14273 Washington Ave
San Leandro. CA

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM A

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 [X] 7 PERMANENTLY CLOSED SITE

I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)

DBA OR FACILITY NAME	NAME OF OPERATOR	
SAN LEANDRO RENTAL	VICTOR BALDI SN.	
ADDRESS	NEAREST CROSS STREET	PARCEL # (OPTIONAL)
14273 WASHINGTON AVENUE	143RD	
CITY NAME	STATE / ZIP CODE	SITE PHONE # WITH AREA CODE
SAN LEANDRO	CA 94577	510-357-5900

✓ BOX TO INDICATE: [X] CORPORATION [ ] INDIVIDUAL [ ] PARTNERSHIP [ ] LOCAL-AGENCY DISTRICTS [ ] COUNTY-AGENCY [ ] STATE-AGENCY [ ] FEDERAL-AGENCY

TYPE OF BUSINESS	✓ IF INDIAN RESERVATION OR TRUST LANDS	# OF TANKS AT SITE	E. P. A. I.D. # (optional)
[ ] 1 GAS STATION [ ] 2 DISTRIBUTOR [ ] 3 FARM [ ] 4 PROCESSOR [X] 5 OTHER	[ ]	2	CAL 000060805

EMERGENCY CONTACT PERSON (PRIMARY)		EMERGENCY CONTACT PERSON (SECONDARY) - optional	
DAYS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE	DAYS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE
JACK QUARLE	510-895-1474	HERROLD, NORMAN	510-895-1474
NIGHTS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE	NIGHTS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE
QUARLE', JACK	510-538-7878		

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME	CARE OF ADDRESS INFORMATION		
SAN LEANDRO RENTAL			
MAILING OR STREET ADDRESS	✓ box to indicate: [X] CORPORATION [ ] INDIVIDUAL [ ] PARTNERSHIP [ ] LOCAL-AGENCY [ ] COUNTY-AGENCY [ ] STATE-AGENCY [ ] FEDERAL-AGENCY		
14273 WASHINGTON AVENUE			
CITY NAME	STATE	ZIP CODE	PHONE # WITH AREA CODE
SAN LEANDRO	CA	94577	510-357-5900

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME OF OWNER	CARE OF ADDRESS INFORMATION		
SAN LEANDRO RENTAL			
MAILING OR STREET ADDRESS	✓ box to indicate: [X] CORPORATION [ ] INDIVIDUAL [ ] PARTNERSHIP [ ] LOCAL-AGENCY [ ] COUNTY-AGENCY [ ] STATE-AGENCY [ ] FEDERAL-AGENCY		
14273 WASHINGTON AVENUE			
CITY NAME	STATE	ZIP CODE	PHONE # WITH AREA CODE
SAN LEANDRO	CA	94577	510-357-5900

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 323-9555 if questions arise.

TY (TK) HQ 44-00 10 37

V. PETROLEUM UST FINANCIAL RESPONSIBILITY - (MUST BE COMPLETED) – IDENTIFY THE METHOD(S) USED

✓ box to indicate: [ ] 1 SELF-INSURED [ ] 2 GUARANTEE [ ] 3 INSURANCE [ ] 4 SURETY BOND [ ] 5 LETTER OF CREDIT [ ] 6 EXEMPTION [X] 99 OTHER

VI. LEGAL NOTIFICATION AND BILLING ADDRESS

Legal notification and billing will be sent to the tank owner unless box I or II is checked.

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING: I. [X] 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)	APPLICANT'S TITLE	DATE MONTH/DAY/YEAR
JACK QUARLE Jack Quarle'	PRESIDENT	3-31-92

LOCAL AGENCY USE ONLY

COUNTY #	JURISDICTION #	FACILITY #
01	009	000507

LOCATION CODE - *OPTIONAL*	CENSUS TRACT # - *OPTIONAL*	SUPVISOR - DISTRICT CODE - *OPTIONAL*

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM: [ ] 1 NEW PERMIT [ ] 2 INTERIM PERMIT [ ] 3 RENEWAL PERMIT [ ] 4 AMENDED PERMIT [ ] 5 CHANGE OF INFORMATION [ ] 6 TEMPORARY TANK CLOSURE [ ] 7 PERMANENTLY CLOSED O. [X] 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: SAN LEANDRO RENTAL

I. TANK DESCRIPTION

COMPLETE ALL ITEMS -- SPECIFY IF UNKNOWN

A. OWNER'S TANK I. D. #	B. MANUFACTURED BY:
C. DATE INSTALLED (MO/DAY/YEAR) 1977	D. TANK CAPACITY IN GALLONS: 5,000

II. TANK CONTENTS

IF A-1 IS MARKED, COMPLETE ITEM C.

A. [X] 1 MOTOR VEHICLE FUEL [ ] 2 PETROLEUM [ ] 3 CHEMICAL PRODUCT [ ] 4 OIL [ ] 80 EMPTY [ ] 95 UNKNOWN

B. [XX] 1 PRODUCT [ ] 2 WASTE

C. [X] 1a REGULAR UNLEADED [ ] 1b PREMIUM UNLEADED [ ] 2 LEADED [ ] 3 DIESEL [ ] 4 GASAHOL [ ] 5 JET FUEL [ ] 6 AVIATION GAS [ ] 7 METHANOL [ ] 99 OTHER (DESCRIBE IN ITEM D. BELOW)

D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED C. A. S. # :

III. TANK CONSTRUCTION

MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E

A. TYPE OF SYSTEM: [ ] 1 DOUBLE WALL [X] 2 SINGLE WALL [ ] 3 SINGLE WALL WITH EXTERIOR LINER [ ] 4 SECONDARY CONTAINMENT (VAULTED TANK) [ ] 95 UNKNOWN [ ] 99 OTHER

B. TANK MATERIAL (Primary Tank): [X] 1 BARE STEEL [ ] 2 STAINLESS STEEL [ ] 3 FIBERGLASS [ ] 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC [ ] 5 CONCRETE [ ] 6 POLYVINYL CHLORIDE [ ] 7 ALUMINUM [ ] 8 100% METHANOL COMPATIBLE W/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 [X] 6 UNLINED [ ] 95 UNKNOWN [ ] 99 OTHER

IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL ? YES ___ NO ___

D. CORROSION PROTECTION: [ ] 1 POLYETHYLENE WRAP [ ] 2 COATING [ ] 3 VINYL WRAP [ ] 4 FIBERGLASS REINFORCED PLASTIC [ ] 5 CATHODIC PROTECTION [ ] 91 NONE [XX] 95 UNKNOWN [ ] 99 OTHER

E. SPILL AND OVERFILL — SPILL CONTAINMENT INSTALLED (YEAR) _____ OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) _____

IV. PIPING INFORMATION

CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE: A (U) 1 SUCTION A U 2 PRESSURE A U 3 GRAVITY A U 99 OTHER

B. CONSTRUCTION: A (U) 1 SINGLE WALL A U 2 DOUBLE WALL A U 3 LINED TRENCH A U 95 UNKNOWN A U 99 OTHER

C. MATERIAL AND CORROSION PROTECTION: A (U) 1 BARE STEEL A U 2 STAINLESS STEEL A U 3 POLYVINYL CHLORIDE (PVC) A U 4 FIBERGLASS PIPE A U 5 ALUMINUM A U 6 CONCRETE A U 7 STEEL W/ COATING A U 8 100% METHANOL COMPATIBLE W/FRP A U 9 GALVANIZED STEEL A U 10 CATHODIC PROTECTION A U 95 UNKNOWN A U 99 OTHER

D. LEAK DETECTION: [ ] 1 AUTOMATIC LINE LEAK DETECTOR [XX] 2 LINE TIGHTNESS TESTING [ ] 3 INTERSTITIAL MONITORING [ ] 99 OTHER

V. TANK LEAK DETECTION

[ ] 1 VISUAL CHECK [X] 2 INVENTORY RECONCILIATION [ ] 3 VADOZE MONITORING [ ] 4 AUTOMATIC TANK GAUGING [ ] 5 GROUND WATER MONITORING [ ] 6 TANK TESTING [ ] 7 INTERSTITIAL MONITORING [ ] 91 NONE [ ] 95 UNKNOWN [ ] 99 OTHER

VI. TANK CLOSURE INFORMATION

1. ESTIMATED DATE LAST USED (MO/DAY/YR)	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING	3. WAS TANK FILLED WITH INERT MATERIAL ?
9/91	0 GALLONS	YES [ ] NO [X]

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 QUARLE' Jack Quarle	3-31-92

LOCAL AGENCY USE ONLY

THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
	07	007	000507	01

PERMIT NUMBER	PERMIT APPROVED BY/DATE	PERMIT EXPIRATION DATE

FORM B (7-91) THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.

FORM334B-RS

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM: [ ] 1 NEW PERMIT [ ] 2 INTERIM PERMIT [ ] 3 RENEWAL PERMIT [ ] 4 AMENDED PERMIT [ ] 5 CHANGE OF INFORMATION [ ] 6 TEMPORARY TANK CLOSURE [X] 7 PERMANENTLY CLOSED ON SITE [X] 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: SAN LEANDRO RENTAL

I. TANK DESCRIPTION

COMPLETE ALL ITEMS -- SPECIFY IF UNKNOWN

A. OWNER'S TANK I. D. #	B. MANUFACTURED BY:
C. DATE INSTALLED (MO/DAY/YEAR) 1977	D. TANK CAPACITY IN GALLONS: 1,000

II. TANK CONTENTS

IF A-1 IS MARKED, COMPLETE ITEM C.

A. [X] 1 MOTOR VEHICLE FUEL [ ] 2 PETROLEUM [ ] 3 CHEMICAL PRODUCT [ ] 4 OIL [ ] 80 EMPTY [ ] 95 UNKNOWN

B. [X] 1 PRODUCT [ ] 2 WASTE

C. [ ] 1a REGULAR UNLEADED [ ] 1b PREMIUM 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 (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED C. A. S. # :

III. TANK CONSTRUCTION

MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D

A. TYPE OF SYSTEM: [ ] 1 DOUBLE WALL [X] 2 SINGLE WALL [ ] 3 SINGLE WALL WITH EXTERIOR LINER [ ] 4 SECONDARY CONTAINMENT (VAULTED TANK) [ ] 95 UNKNOWN [ ] 99 OTHER

B. TANK MATERIAL (Primary Tank): [X] 1 BARE STEEL [ ] 2 STAINLESS STEEL [ ] 3 FIBERGLASS [ ] 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC [ ] 5 CONCRETE [ ] 6 POLYVINYL CHLORIDE [ ] 7 ALUMINUM [ ] 8 100% METHANOL COMPATIBLE W/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 [X] 6 UNLINED [X] 95 UNKNOWN [ ] 99 OTHER
IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL ? YES ___ NO ___

D. CORROSION PROTECTION: [ ] 1 POLYETHYLENE WRAP [ ] 2 COATING [ ] 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 OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE: A (U) 1 SUCTION; A U 2 PRESSURE; A U 3 GRAVITY; A U 99 OTHER

B. CONSTRUCTION: A (U) 1 SINGLE WALL; A U 2 DOUBLE WALL; A U 3 LINED TRENCH; A U 95 UNKNOWN; A U 99 OTHER

C. MATERIAL AND CORROSION PROTECTION: A (U) 1 BARE STEEL; A U 2 STAINLESS STEEL; A U 3 POLYVINYL CHLORIDE (PVC); A U 4 FIBERGLASS PIPE; A U 5 ALUMINUM; A U 6 CONCRETE; A U 7 STEEL W/ COATING; A U 8 100% METHANOL COMPATIBLE W/FRP; A U 9 GALVANIZED STEEL; A U 10 CATHODIC PROTECTION; A U 95 UNKNOWN; A U 99 OTHER

D. LEAK DETECTION: [ ] 1 AUTOMATIC LINE LEAK DETECTOR [XX] 2 LINE TIGHTNESS TESTING [ ] 3 INTERSTITIAL MONITORING [ ] 99 OTHER

V. TANK LEAK DETECTION

[ ] 1 VISUAL CHECK [X] 2 INVENTORY RECONCILIATION [ ] 3 VAPOR MONITORING [ ] 4 AUTOMATIC TANK GAUGING [ ] 5 GROUND WATER MONITORING [ ] 6 TANK TESTING [ ] 7 INTERSTITIAL MONITORING [ ] 91 NONE [ ] 95 UNKNOWN [ ] 99 OTHER

VI. TANK CLOSURE INFORMATION

1. ESTIMATED DATE LAST USED (MO/DAY/YR)	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING	3. WAS TANK FILLED WITH INERT MATERIAL ?
9/91	0 GALLONS	YES [ ] NO [X]

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 QUARLE' Jack Quarle	3-31-92

LOCAL AGENCY USE ONLY

THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
	01	007	000507	02

PERMIT NUMBER	PERMIT APPROVED BY/DATE	PERMIT EXPIRATION DATE

FORM B (9-90) THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.

FCR0334B-R4

INSTRUCTIONS FOR COMPLETING FORM "B"

GENERAL INSTRUCTIONS:

1. One FORM "B" shall be completed for each tank for all NEW PERMITS, PERMIT CHANGES, REMOVALS and/or any other TANK INFORMATION CHANGE.
2. This form should be completed by either the PERMIT APPLICANT or the LOCAL AGENCY UNDERGROUND TANK INSPECTOR.
3. Please type or print clearly all requested information.
4. Use a hard point writing instrument, you are making 3 copies.

TOP OF FORM: "MARK ONLY ONE ITEM"

1. Mark an (X) in the box next to the item that best describes the reason the form is being completed.
2. Indicate the DBA or Facility name where the tank is installed.

I. TANK DESCRIPTION - COMPLETE ALL ITEMS - IF UNKNOWN - SO SPECIFY

A. Indicate owners tank ID # - If there is a tank number that is used by the owner to identify the tank (ex. AB70789).
B. Indicate the name of the company that manufactured the tank (ex. ACME TANK MFG.).
C. Indicate the year the tank was installed (ex. 1987).
D. Indicate the tank capacity in gallons (ex. 25,000 or 10,000 etc.).

II. TANK CONTENTS

A. 1. If MOTOR VEHICLE FUEL, check box 1 and complete items B & C.
2. If not MOTOR VEHICLE FUEL, check the appropriate box in section A and complete items B & D.
B. Check the appropriate box.
C. Check the type of MOTOR VEHICLE FUEL (if box 1 is checked in A).
D. Print the chemical name of the hazardous substance stored in the tank and the C.A.S.#. (Chemical Abstract Service number), if box 1 is NOT checked in A.

III. TANK CONSTRUCTION - MARK ONE ITEM ONLY IN BOX A, B, C & D

1. Check only one item in TYPE OF SYSTEM, TANK MATERIAL, INTERIOR LINING and CORROSION PROTECTION.
2. If OTHER, print in the space provided.

IV. PIPING INFORMATION

1. Circle A if above ground; circle U if underground; and circle both if applicable.
2. If UNKNOWN, circle; or if OTHER, print in space provided.
3. Indicate the LEAK DETECTION system(s) used to comply with the monitoring requirement for the piping.

V. TANK LEAK DETECTION

1. Indicate the LEAK DETECTION system(s) used to comply with the monitoring requirements for the tank.

VI. INFORMATION ON TANK PERMANENTLY CLOSED IN PLACE

1. ESTIMATED DATE LAST USED - MONTH/YEAR (January, 1988 or 01/88).
2. ESTIMATED QUANTITY of HAZARDOUS SUBSTANCE remaining in the tank (in Gallons).
3. WAS TANK FILLED WITH INERT MATERIAL? Check 'Yes' or 'NO'.

APPLICANT MUST SIGN AND DATE THE FORM AS INDICATED.

INSTRUCTION FOR THE LOCAL AGENCIES

The state underground storage tank identification number is composed of the two digit county number, the three digit jurisdiction number, the six digit facility number and the six digit tank number. The county and jurisdiction numbers are predetermined and can be obtained by calling the State Board (916)739-2421. The facility number must be the same as shown in form "A". The tank number may be assigned by the local agency; however, this number must be numerical and cannot contain an alphabet. If the local agency prefers the State Board to assign the tank number, please leave it blank.

IT IS THE RESPONSIBILITY OF THE LOCAL AGENCY THAT INSPECTS THE FACILITY TO VERIFY THE ACCURACY OF THE INFORMATION. THE LOCAL AGENCY IS RESPONSIBLE FOR THE COMPLETION OF THE "LOCAL AGENCY USE ONLY" INFORMATION BOX AND FOR FORWARDING ONE FORM "A" AND ASSOCIATED FORM "B"(s) TO THE FOLLOWING ADDRESS.

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
C/O S.W.I.E.P.S.
DATA PROCESSING CENTER
P.O. BOX 527
PARAMOUNT, CA 90723

Reviewed By MB

Approval Date 12/17/90

Rejection Date ____

San Leandro Fire Department
Hazardous Materials Division
835 East 14th Street
San Leandro, CA 94577
(415) 577-3331

Rev 5/90

Date Received 12-11-90

Fees Paid 170.00 MC

UNDERGROUND STORAGE TANK CLOSURE PLAN/PERMIT

EPA# CAC-000544944

1. Facility Name: SAN LEANDRO RENTALS Address: 14273 WASHINGTON AVE., S.L.
   Contact Person: VICTOR D. BALDI, JUNIOR Phone No.: 415) 357-5900
2. Contractor: SCOTT CO. OF CALIFORNIA License Type & No.: A-GEN. ENG. #184480
   Address: 1919 MARKET STREET, OAKLAND, CA. 94607
   Contact Person: JAY GROH Phone No.: 415) 834-2333
3. Sampling to be performed by: SCOTT CO. FOREMAN Phone No.: 415) 834-2333
4. Laboratory services to be provided by: WESTERN ENVIRONMENTAL SCIENCE & TECH.
   DOHS Certificate No.: 340 Phone No.: 916) 735-9500
5. Tank Hauler: H&H ENVIRONMENTAL SERVICES EPA ID No.: CAD-004771168
   Address: 220 CHINA BASIN STREET SAN FRANCISCO 94107 Phone No.: 415) 543-4835
   Destination of Tank(s): SAME AS ABOVE
6. Method of inerting tank(s): 15 LBS. DRY ICE per 1,000 GALLONS
7. Type of explosimeter or combustible gas meter to be provided: BIOSENSOR 2 MODEL #2002 RD
8. Tanks to be removed:

	Size	Content	Material of Construction	Age	Sample Analysis Method
Tank 1	1,000	DIESEL	STEEL	APPROX. 20 YRS.	TPH-D BTX&E 8020 OR 8240
Tank 2					
Tank 3					
Tank 4					
Tank 5					
Piping	Permit Signoff conditional on removal of product + vent piping when two other tanks removed off property MB 1/7/91				

I acknowledge receipt and agree to comply with the San Leandro Fire Department Underground Storage Tank Closure Requirements. I declare under penalty of perjury that the aforementioned information is true and correct, to the best of my knowledge.

Company Name: SCOTT CO. OF CALIFORNIA Address: 1919 MARKET ST, OAKLAND 94607

Applicant's Signature M. Schweichert-Story, SCOTT CO. Date 12 DECEMBER 90

Number of Tanks Removed 1 Inspector Michael Baldi Date 1/7/91

UN GROUND STORAGE TANK CLOSURE RE T Rev 5/90

Facility Name San Leandro Rental Address 14273 Washington Date 1/7/91

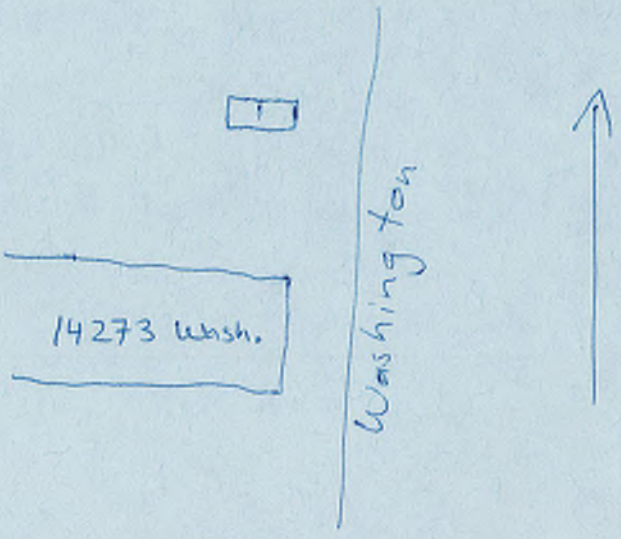
Inspector M. Bakaldin Arrival Time 1000 Departure Time 1100

Contact at Site Ray Rodda Company Scott Co.

	Tank 1	Tank 2	Tank 3	Tank 4
Tank Content	Diesel			
Tank Size	1,000 gal			
% LEL / % O2	1% / <5%			
Lbs Dry Ice	150			
Corrosion/Holes	No/No			
No. of Samples	2			
Soil odor/color	Yes / No			

Piping: Supply X Vapor Return ____ Vent X Piping Removed: No

Piping Sampled: No No. of samples: ____ Sample odor/color: ____

Site Map	Sample Description
	#1 Soil - W end of tank - 2' into native #2 Soil - E end of tank - 2' into native #3 #4 #5 #6 #7 #8 #9 #10 #11 #12 #13 #14 #15 #16 #17

Comments: Piping will be removed when two other tanks will be removed. Mildly strong odor of petroleum in samples.

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY ☐ YES ☒ NO

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☒ NO

REPORT DATE: 05/21/91 | CASE #:

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 SAFTY CODE.
SIGNED: Michael Bakaldin DATE: 5/21/91

REPORTED BY

NAME OF INDIVIDUAL FILING REPORT: Michael Bakaldin | PHONE: (415)577-3331 | SIGNATURE: Michael Bakaldin

REPRESENTING: ☒ LOCAL AGENCY ☐ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ OTHER _____

COMPANY OR AGENCY NAME: San Leandro Fire Dept.

ADDRESS: 835 East 14th STREET | Street | San Leandro CITY | CA STATE | 94577 ZIP

RESPONSIBLE PARTY

NAME: Victor Baldi ☐ UNKNOWN | CONTACT PERSON: | PHONE: (415) 357-5900

ADDRESS: 14273 Washington Ave STREET | San Leandro CITY | CA STATE | 94578 ZIP

SITE LOCATION

FACILITY NAME (IF APPLICABLE): San Leandro Rental | OPERATOR: Victor Baldi | PHONE: (415)357-5900

ADDRESS: 14273 Washington Ave STREET | San Leandro CITY | Alameda COUNTY | 94578 ZIP

CROSS STREET: 143rd Ave

IMPLEMENTING AGENCIES

LOCAL AGENCY: San Leandro | AGENCY NAME: F.D. | CONTACT PERSON: Michael Bakaldin | PHONE: (415)577-3331

REGIONAL BOARD: San Francisco Bay | R. Hyatt | PHONE: ( )

SUBSTANCES INVOLVED

(1) NAME: Diesel | QUANTITY LOST (GALLONS): ☒ UNKNOWN

(2) NAME: | QUANTITY LOST (GALLONS): ☐ UNKNOWN

DISCOVERY/ABATEMENT

DATE DISCOVERED: 01/07/91 | HOW DISCOVERED: ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK TEST ☒ TANK REMOVAL ☐ OTHER _____

DATE DISCHARGE BEGAN: M M D D Y Y ☒ UNKNOWN

HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE M M D D Y Y

METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
☒ REMOVE CONTENTS ☐ REPLACE TANK ☐ CLOSE TANK ☐ REPAIR TANK ☐ REPAIR PIPING ☐ CHANGE PROCEDURE ☒ OTHER Remove tank

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) _____
☐ REMOVE FREE PRODUCT (FP) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ TREATMENT AT HOOKUP (HU)
☐ ENHANCED BIO DEGRADATION (IT) ☐ REPLACE SUPPLY (RS) ☐ VENT SOIL (VS)

COMMENTS

HSC 05 (11/89)

SCOTT CO.
MECHANICAL CONTRACTORS
1919 Market Street
P.O. Box 12954
Oakland, California 94604
(415) 834-2333

Contractors License No. 184480

FIRE DEPARTMENT
MAY 16 1991
CITY OF SAN LEANDRO

May 1, 1991

City of San Leandro
San Leandro Fire Department
835 East 14th Street
San Leandro, California 94577

Attention: Michael Bakaldin

Gentlemen:

Please find enclosed paperwork concerning the tank removal at San Leandro Rental.

This tank was removed on 1/7/91. The tank was in good condition and was intact upon removal.

The site was sampled at the direction of Michael Bakaldin of the San Leandro Fire Department.

After sampling analysis was completed, San Leandro Rental over excavated to just above the top of the water table, and resampled the site with the hopes of removing the existing contamination.

The results still showed levels of 1000 ppm of TPH as diesel in the soil. The excavation was backfilled and the existing stockpiles moved to the far end of the facility. Treatment methods are currently being considered by San Leandro Rental.

This site has two additional tanks that are to be removed at a later date. Additional site work will be done in conjunction with the removal of the additional tanks.

San Leandro Rental Co. is currently handling all phases of this work.

Should you have any questions concerning the tank removal, I can be contacted at 834-2333, extension 3379.

Very truly yours,

SCOTT CO. OF CALIFORNIA

Jay Groh
Environmental Estimator

cc: Vic Baldi, Jr.
Enclosure

ENVIRONMENTAL SERVICES
(DIVISION OF H&H SHIP SERVICE CO., INC.)

CERTIFICATE OF DISPOSAL

JANUARY 10, 1991

220 CHINA BASIN, SAN FRANCISCO, CA 94107 • DAY AND NIGHT: 543-4835

H & H Ship Service Company hereby certifies to SCOTT COMPANY

1. The storage tank(s), size(s) ONE (1) 1,000 GALS.

   removed from the SAN LEANDRO RENTALS
   14273 WASHINGTON AVENUE
   SAN LEANDRO, CALIFORNIA

   were transported to H & H Ship Service Company, 220 China Basin St., San Francisco, California 94107.

2. The following tank(s), H & H Job Number 6788

   have been steamed cleaned, cut with approximately 2' X 2' holes, rendered harmless and disposed of as scrap metal.

3. Disposal site: SCHNITZER STEEL, OAKLAND, CALIFORNIA.

4. The foregoing method of destruction/disposal is suitable for the materials involved, and fully complies with all applicable regulatory and permit requirements.

5. Should you require further information, please call (415) 543-4835.

Very Truly Yours,

Cleveland Valrey
Operations Coordinator

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-)
Please print or type. *Form designed for use on e. 12-pitch typewriter).*

See Instructions on Back of Page 6 and Front of Page 7

Department of Health Servic
Toxic Substances Control Divisi
Sacramento, Califor

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C A C 0 0 0 5 4 4 9 4 4
Manifest Document No.: 0 0 0 0 1

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SAN LEANDRO RENTALS
14273 Washington Avenue, San Leandro, Ca. 94578

4. Generator's Phone (415) 357-5900

A. State Manifest Document Number: 90544808

B. State Generator's ID:

5. Transporter 1 Company Name: H & H Ship Service Company

6. US EPA ID Number: C A D 0 0 4 7 7 1 1 6 8

C. State Transporter's ID: 103767

D. Transporter's Phone: (415) 543-4835

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
H & H Ship Service Company
220 China Basin Street
San Francisco, CA 94107

10. US EPA ID Number: C A D 0 0 4 7 7 1 1 6 8

G. State Facility's ID: C A D 0 0 4 7 7 1 1 6 8

H. Facility's Phone: (415) 543-4835

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. RESIDUE DIESEL TANK NON RCRA HAZARDOUS WASTE SOLID	0 0 1	T P	0 1 0 0 0	P	State 512 / EPA/Other
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
PUMPED OUT 1,000 gallon tank last containing diesel. Tank inerted with dry ice for transport.

K. Handling Codes for Wastes Listed Above
a. 01
b.
c.
d.

15. Special Handling Instructions and Additional Information
JOB #6788

APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR

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 government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: VICTOR D BALDI JR
Signature: Victor D Baldi
Month Day Year: 0 1 0 7 9 1

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JOHN J. CICH
Signature: John J Cich
Month Day Year: 0 1 0 7 9 1

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year:

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.
Printed/Typed Name: [illegible]
Signature: [illegible]
Month Day Year: 0 1 0 7 9 1

GENERATOR

TRANSPORTER

FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

90544808

DHS 8022 A
EPA 8700—22
(Rev. 6-89) Previous editions are obsolete.

Do Not Write Below This Line

TSDF SENDS THIS COPY TO DOHS WITHIN 30 DAY
[illegible] Sacramento, CA 95812

January 18, 1991
Sample Log 2166

Jay Groh
Scott Company
1919 Market Street
Oakland, CA 94607

Subject: Analytical Results for 3 Soil Sample(s)
Identified as: San Leandro Rental
Received: 01/07/91
Purchase Order: 106231-58833-72-7001

Dear Mr. Groh:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on January 8, 1991 and describes procedures used to analyze the samples.

Sample(s) were received in brass sleeves that were sealed with aluminum foil and plastic endcaps. Each sample was transported and received under documented chain of custody and stored at 4 degrees C until analysis was performed.

Sample(s) were analyzed using the following method(s):

"BTEX" (EPA Method 8020/Purge-and-Trap)
"TPH as Diesel,Motor Oil,Jet/Kerosene" (Mod. 8015/Extraction)

Please refer to the following table(s) for summarized analytical results and contact us if you have questions regarding procedures or results. The chain-of-custody document is enclosed.

Approved by:

Joel Kiff
Senior Chemist

Western Environmental
Science & Technology
1046 Olive Drive, Suite 3
Davis, CA 95616
916 753-9500

January 18, 1991
Sample Log 2166

Table 1: 'BTEX' Results for 3 Soil Sample(s) Identified as
San Leandro Rental
Received 01/07/91

--all concentrations are units of mg/kg--

Sample	Benzene	Toluene	Ethylbenzene	Xylenes
1	.01	<.005	.015	.035
2	.12	.18	<.005	.022
Composite 1 3A 3B 3C 3D	<.005	<.005	<.005	<.005
(Reporting Limit	.005	.005	.005	.005)

Western Environmental
Science & Technology
1046 Olive Drive, Suite 3
Davis, CA 95616
916 753-9500

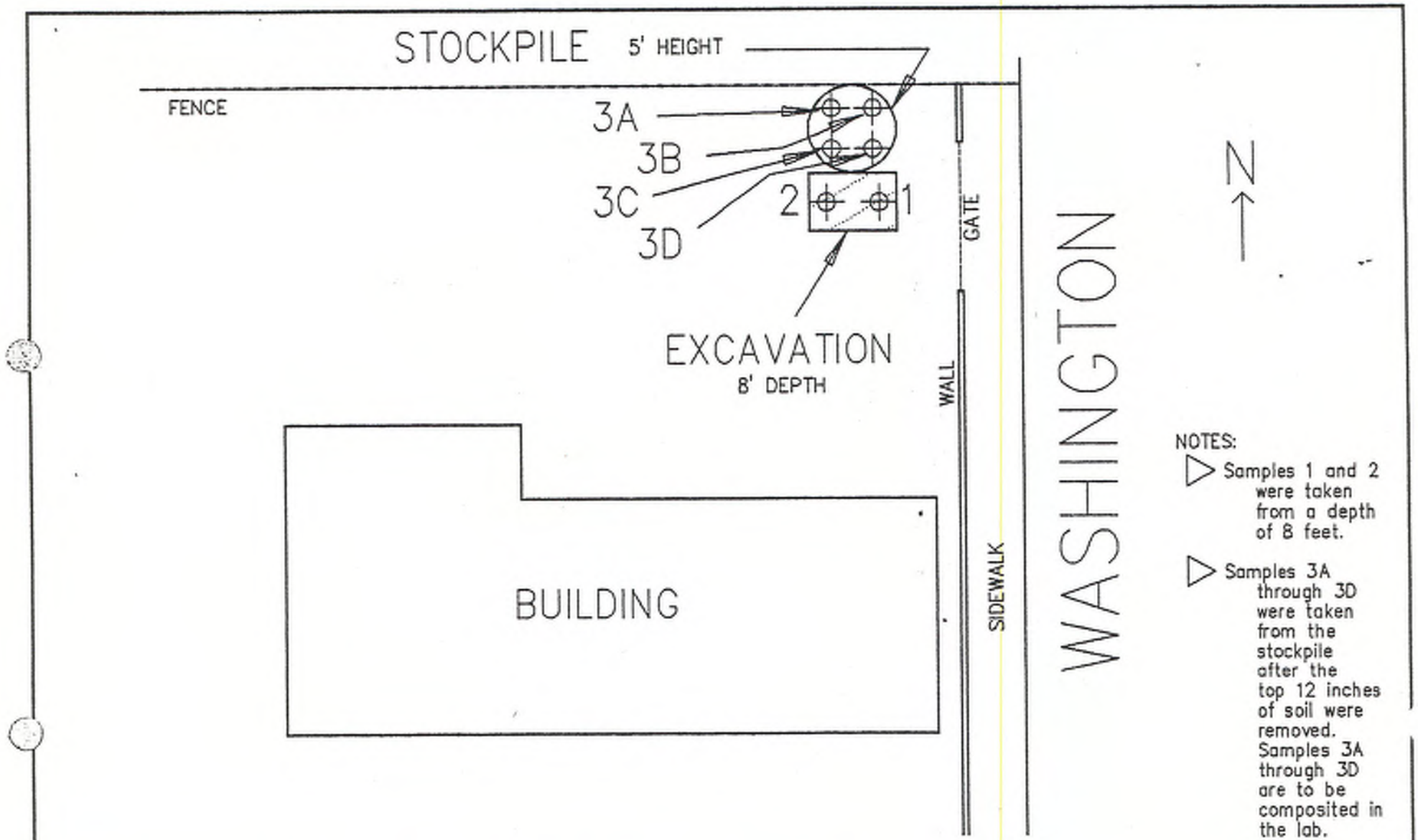
January 18, 1991
Sample Log 2166

Table 2: TPH Results for 3 Soil Sample(s)
From : San Leandro Rental
Received 01/07/91

--all concentrations are units of mg/kg--

Sample	Product ID and Conc.
1	Diesel: 3000
2	Diesel: 5200
Composite 1 3A 3B 3C 3D	Diesel: 4800
(Reporting Limit	10.0)

Western Environmental
Science & Technology
1046 Olive Drive, Suite 3
Davis, CA 95616
916 753-9500



SAN LEANDRO RENTAL (SCOTT)
14273 WASHINGTON
SAN LEANDRO, CALIFORNIA

Sample Log#: 2166
DATE: 1/7/1991
SCALE 1/288

Western Environmental Science & Technology
1046 Olive Drive #3, Davis, CA 95616
Phone: (916) 753-9500

Drawn by: TGT

WEST
Western Environmental Science & Technology

1046 Olive Drive, Suite 3
Davis, CA 95616

916-753-9500
FAX #: 916-753-6091

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: JAY GROH (SCOTT CO.)
Phone #: 415 - 834-2333
Address:
FAX #:
Project Number: 106231-58833-72-7001
Project Name: SLR SAN LEANDRO RENTAL
Project Location: 14273 WASHINGTON SAN LEANDRO CA
Sampler Signature:

Sample ID	Lab # (Lab use only)	# CONTAINERS	Volume/Amount	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO3	ICE	NONE	OTHER	Sampling: DATE	TIME
1		1			X						X			1-7-91	1100
2		1			X						X				1115
3 ABCD		4			X						X				1130

ANALYSIS REQUEST

BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015 or 8270)	TPH as Jetfuel (8015 or 8270)	Total Oil & Grease (413.1)	Total Oil & Grease (413.2)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080-PCBs Only	EPA 624/8240	EPA 625/8270	CAM - 17 Metals	Waste Extraction Test (WET)	EPA - Priority Pollutant Metals	LEAD(7420/7421/239.2)	ORGANIC LEAD
X		X															
X		X															
X		X			COMPOSITE AS ONE												

OTHER

SPECIAL HANDLING

RUSH SERVICE (12 hr) or (24 hr)	EXPEDITED SERVICE (48 hr) or (1 wk)	VERBAL/FAX	SPECIAL DETECTION LIMITS (SPECIFY)	SPECIAL REPORTING REQUIREMENTS
X				
X				
X				

Relinquished by:	Date	Time	Received by:
Relinquished by	Date	Time	Received by:
Relinquished by	Date	Time	Received by Laboratory:
	1-7-91	1330	

Remarks: 24 HR TAT

4.0 HR SAMPLING

PL346

January 21, 1991
Sample Log 2211

Jay Groh
Scott Company
1919 Market Street
Oakland, CA 94607

Subject: Analytical Results for 2 Soil Sample(s)
Identified as: San Leandro Rental
Received: 01/17/91

Dear Mr. Groh:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on January 21, 1991 and describes procedures used to analyze the samples.

Sample(s) were received in brass sleeves that were sealed with aluminum foil and plastic endcaps. Each sample was transported and received under documented chain of custody and stored at 4 degrees C until analysis was performed.

Sample(s) were analyzed using the following method(s):

"TPH as Diesel,Motor Oil,Jet/Kerosene" (Mod. 8015/Extraction)

Please refer to the following table(s) for summarized analytical results and contact us if you have questions regarding procedures or results. The chain-of-custody document is enclosed.

Approved by:

Stewart Podolsky
Senior Chemist

Western Environmental
Science & Technology
1046 Olive Drive, Suite 3
Davis, CA 95616
916 753-9500

January 21, 1991
Sample Log 2211

Sample: F1

From : San Leandro Rental
Received : 01/17/91
Matrix : Soil

--all concentrations are units of mg/kg--

Parameter / (Reporting Limit)		Measured Value
Extractable TPH	(10)	Diesel : 840

Western Environmental
Science & Technology
1046 Olive Drive, Suite 3
Davis, CA 95616
916 753-9500

January 21, 1991
Sample Log 2211

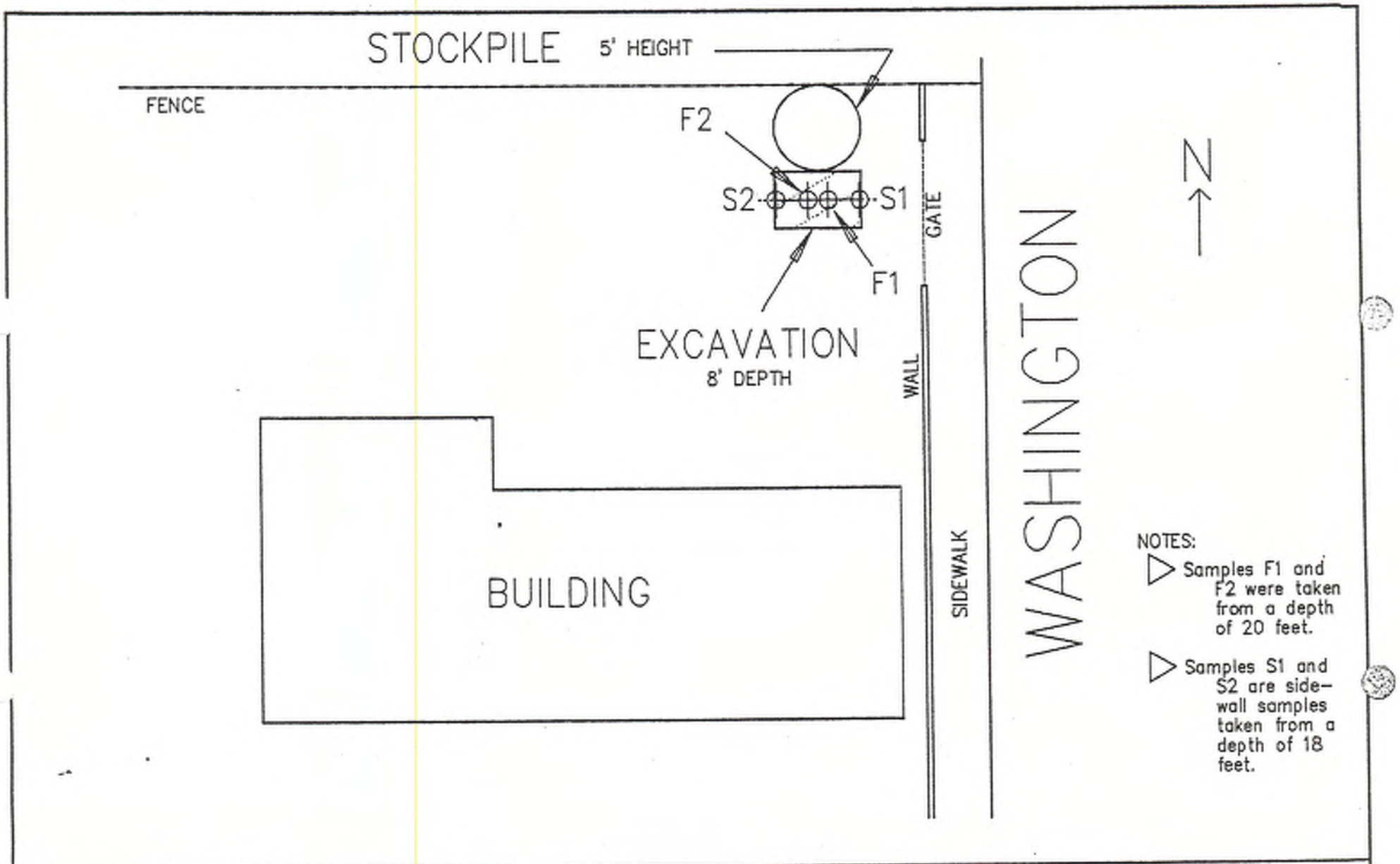
Sample: F2

From : San Leandro Rental
Received : 01/17/91
Matrix : Soil

--all concentrations are units of mg/kg--

Parameter / (Reporting Limit)		Measured Value
Extractable TPH	(10)	Diesel : 370

Western Environmental
Science & Technology
1046 Olive Drive, Suite 3
Davis, CA 95616
916 753-9500



SAN LEANDRO RENTAL (SCOTT)
14273 WASHINGTON
SAN LEANDRO, CALIFORNIA

Sample Log#: 2211
DATE: 1/17/1991
SCALE 1/288

Western Environmental Science & Technology
1046 Olive Drive #3, Davis, CA 95616
Phone: (916) 753-9500

Drawn by: TGT

WEST
Western Environmental Science & Technology

1046 Olive Drive, Suite 3
Davis, CA 95616
916-753-9500
FAX #: 916-753-6091

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Scott Co. / Jay Girdh
Phone #:
Address:
FAX #:
Project Number:
Project Name: SLR San Leandro Rentals
Project Location:
Sampler Signature:

Sample ID	Lab # (Lab use only)	# CONTAINERS	Volume/Amount	Matrix: WATER	SOIL	AIR	SLUDGE	OTHER	Method Preserved: HCl	HNO3	ICE	NONE	OTHER	Sampling: DATE	TIME	BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015 or 8270)	TPH as Jetfuel (8015 or 8270)	Total Oil & Grease (413.1)	Total Oil & Grease (413.2)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 609/8080-PCBs Only	EPA 624/8240	EPA 625/8270	CAM - 17 Metals	Waste Extraction Test (WET)	EPA - Priority Pollutant Metals	LEAD(7420/7421/239.2)	ORGANIC LEAD	OTHER: Hold	RUSH SERVICE (12 hr/Let 24 hr)	EXPEDITED SERVICE (48 hr) or (1 wk)	VERBALS/FAX	SPECIAL DETECTION LIMITS (SPECIFY)	SPECIAL REPORTING REQUIREMENTS
F1		1			X						X							X																	X			
F2		1			X						X							X																	X			
S1		1			X						X																						X					
S2		1			X						X																						X					

Relinquished by: | Date | Time | Received by:

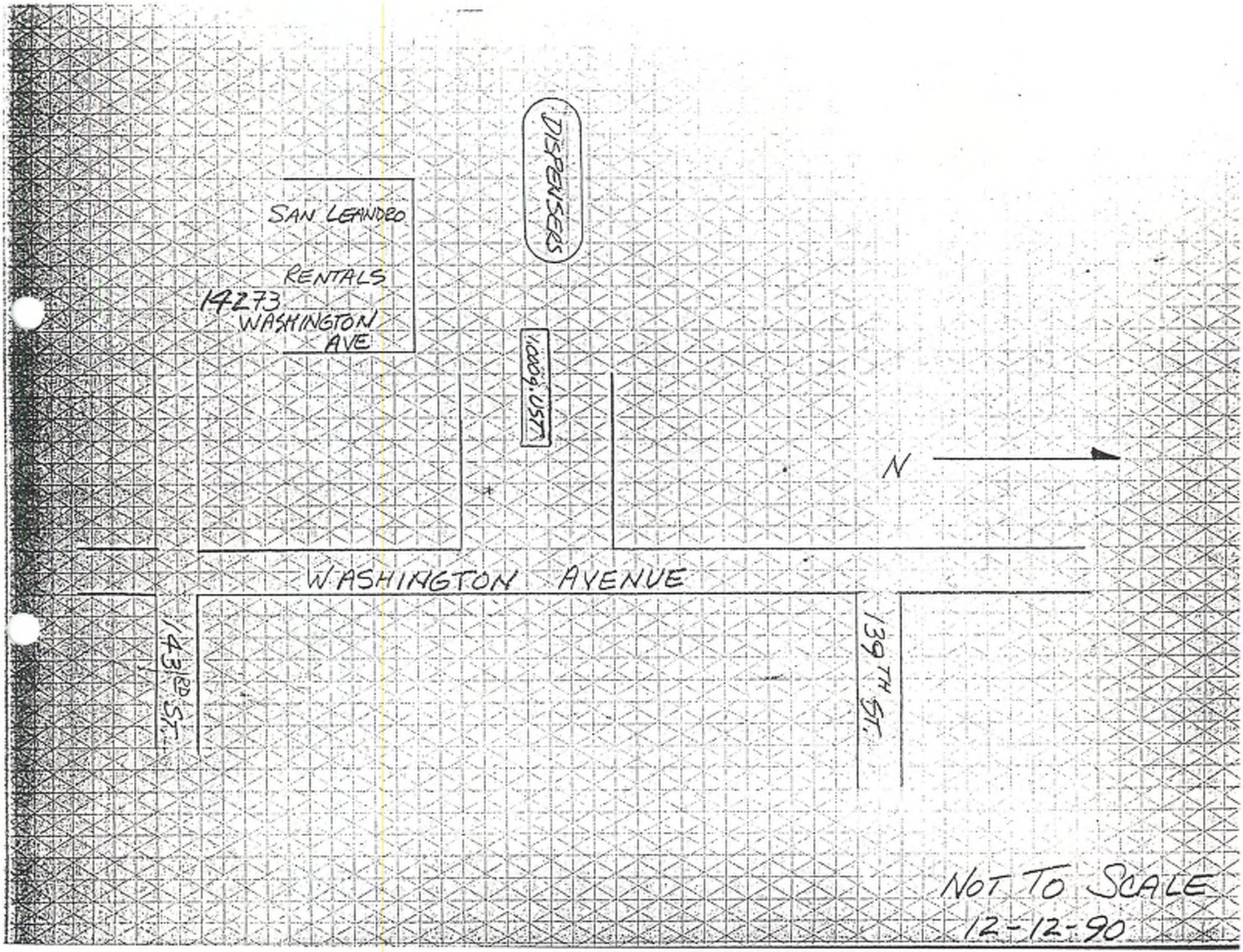
Relinquished by | Date | Time | Received by:

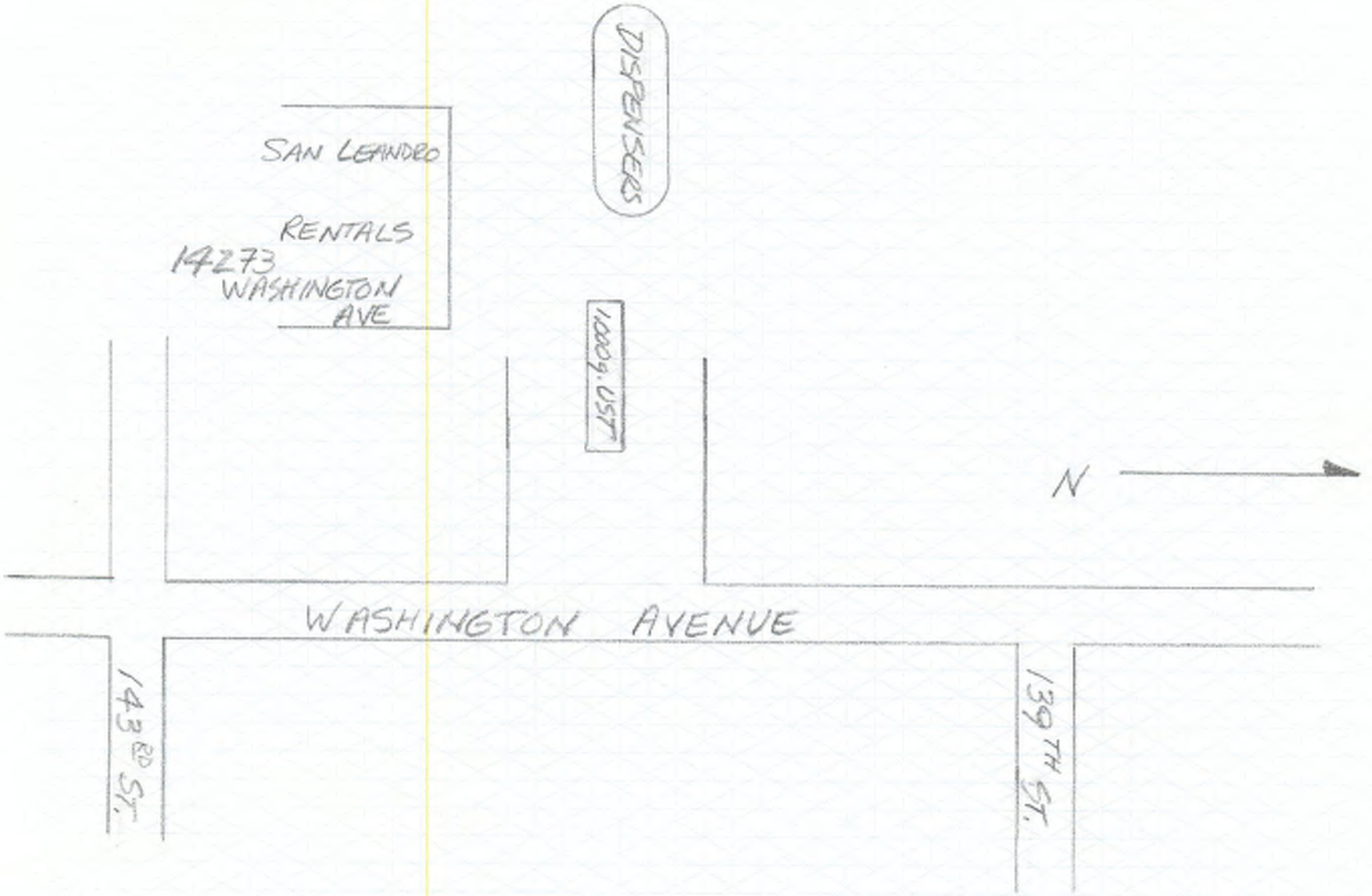
Relinquished by: | Date: 1-17-91 | Time: 1600 | Received by Laboratory: D. Rodulfo

Remarks: 48 HR TAT

3.0 HR SAMPLING

PL387


SAN LEANDRO
RENTALS
14273
WASHINGTON
AVE
DISPENSERS
1000 g. UST
N
WASHINGTON AVENUE
143RD ST.
139TH ST.
NOT TO SCALE
12-12-90



NOT TO SCALE

12-12-08

STATE OF CALIFORNIA — WATER RESOURCES CONTROL BOARD

FORM 'A':
SITE

UNDERGROUND STORAGE TANK PROGRAM
FACILITY/SITE, INFORMATION and/or PERMIT APPLICATION

COMPLETE THIS FORM FOR EACH FACILITY/SITE

No. 35386

MARK ONLY ONE ITEM							
	☐ 1 NEW PERMIT	☐ 3 RENEWAL PERMIT	☒ 5 CHANGE OF INFORMATION	☐ 7 PERMANENTLY CLOSED SITE
	☐ 2 INTERIM PERMIT	☐ 4 AMENDED PERMIT	☐ 6 TEMPORARY SITE CLOSURE	

I. FACILITY/SITE INFORMATION & ADDRESS — (MUST BE COMPLETED)

FACILITY/SITE NAME: SAN LEANDRO RENTALS	CARE OF ADDRESS INFORMATION: VICTOR D. BALDI, JR.
ADDRESS: 14273 WASHINGTON AVENUE	NEAREST CROSS STREET: 143RD AVENUE; ☑ Box to indicate ☒ CORPORATION ☐ INDIVIDUAL ☐ PARTNERSHIP ☐ LOCAL AGENCY ☐ COUNTY AGENCY ☐ STATE AGENCY ☐ FEDERAL AGENCY
CITY NAME: SAN LEANDRO	STATE: CA; ZIP CODE: 94578; SITE PHONE #, WITH AREA CODE: 415) 357-5900
TYPE OF BUSINESS: ☐ 1 GAS STATION ☐ 2 DISTRIBUTOR ☐ 3 FARM ☐ 4 PROCESSOR ☒ 5 OTHER; ☑ Box if INDIAN RESERVATION or TRUST LANDS ☐	EPA ID #: CAC-000544944; # of TANK's AT THIS SITE: 1

EMERGENCY CONTACT PERSON (PRIMARY)		EMERGENCY CONTACT PERSON (SECONDARY)	
DAYS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE	DAYS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE
~~BE~~ BALDI, SR. VICTOR	415) 357-5900	BALDI, JR. VICTOR	415) 357-5900
NIGHTS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE	NIGHTS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE
BALDI, JR. VICTOR	415) 581-0694	BALDI, SR. VICTOR	415) 581-0338

II. PROPERTY OWNER INFORMATION & ADDRESS — (MUST BE COMPLETED)

NAME: SAN LEANDRO RENTALS	CARE OF ADDRESS INFORMATION: VICTOR D. BALDI, JR.		
MAILING or STREET ADDRESS: 14273 WASHINGTON AVENUE	☑ Box to indicate ☒ CORPORATION ☐ INDIVIDUAL ☐ PARTNERSHIP ☐ LOCAL-AGENCY ☐ COUNTY-AGENCY ☐ STATE-AGENCY ☐ FEDERAL-AGENCY		
CITY NAME: SAN LEANDRO	STATE: CA	ZIP CODE: 94578	PHONE #, WITH AREA CODE: 415) 357-5900

III. TANK OWNER INFORMATION & ADDRESS — (MUST BE COMPLETED)

NAME: SAN LEANDRO RENTALS	CARE OF ADDRESS INFORMATION: VICTOR D. BALDI, JR.		
MAILING or STREET ADDRESS: 14273 WASHINGTON AVENUE	☑ Box to indicate ☒ CORPORATION ☐ INDIVIDUAL ☐ PARTNERSHIP ☐ LOCAL-AGENCY ☐ COUNTY-AGENCY ☐ STATE-AGENCY ☐ FEDERAL-AGENCY		
CITY NAME: SAN LEANDRO	STATE: CA	ZIP CODE: 94578	PHONE #, WITH AREA CODE: 415) 357-5900

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
M. SCHWERCKERT-STARY, M. Schwerckert-Stary	12-12-90

LOCAL AGENCY USE ONLY — SCOTT CO. OF CALIFORNIA

COUNTY #	JURISDICTION #	AGENCY #	FACILITY ID #	# of TANKS at SITE

CURRENT LOCAL AGENCY FACILITY ID #	APPROVED BY NAME	PHONE # WITH AREA CODE

PERMIT NUMBER	PERMIT APPROVAL DATE	PERMIT EXPIRATION DATE

LOCATION CODE	CENSUS TRACT #	SUPERVISOR-DISTRICT CODE	BUSINESS PLAN FILED YES ☐ NO ☐	DATE FILED

CHECK #	PERMIT AMOUNT	SURCHARGE AMOUNT	FEE CODE	RECEIPT #	BY:

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE TANK PERMIT **FORM 'B'** APPLICATION(S), UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.

FORM A (3-2-88)

DATA PROCESSING COPY

STATE OF CALIFORNIA — WATER RESOURCES CONTROL BOARD

FORM 'B': UNDERG. UND STORAGE TANK PROGR
TANK — TANK PERMIT APPLICATION INFORMATION

COMPLETE A SEPARATE FORM WITH THE FOLLOWING INFORMATION FOR EACH TANK.

No. 29223

MARK ONLY ONE ITEM							
	☐ 1 NEW PERMIT	☐ 3 RENEWAL PERMIT	☒ 5 CHANGE OF INFORMATION	☐ 7 PERMANENTLY CLOSED TANK
	☐ 2 INTERIM PERMIT	☐ 4 AMENDED PERMIT	☐ 6 TEMPORARY TANK CLOSURE	☐ 8 TANK REMOVED

FACILITY/SITE NAME WHERE TANK IS INSTALLED: SAN LEANDRO RENTALS — FARM TANK - YES ☐ NO ☒

TANK DESCRIPTION — COMPLETE ALL ITEMS - IF UNKNOWN — SO SPECIFY

A. OWNERS TANK ID # CAC-000544944	B. MANUFACTURED BY: UNKNOWN
C. YEAR INSTALLED APPROX. 1968-1970	D. TANK CAPACITY IN GALLONS: 1,000

I. TANK CONTENTS — IF (A.1), IS MARKED, COMPLETE ITEM C. IF (A.1), IS NOT MARKED, COMPLETE ITEM D.

A.	B.	C.
☒ 1 MOTOR VEHICLE FUEL ☐ 2 PETROLEUM ☐ 3 CHEMICAL PRODUCT ☐ 4 OIL ☐ 5 HAZARDOUS ☐ 80 EMPTY ☐ 95 UNKNOWN	☒ 1 PRODUCT ☐ 2 WASTE	☐ 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. # N/A — C.A.S. #: N/A

II. TANK CONSTRUCTION — MARK ONE ITEM ONLY IN BOX A, B, C, & D

A. TYPE OF SYSTEM	☐ 1 DOUBLE WALLED ☒ 2 SINGLE WALLED	☐ 3 SINGLE WALLED WITH EXTERIOR LINER ☐ 4 SECONDARY CONTAINMENT		☐ 95 UNKNOWN ☐ 99 OTHER
B. TANK MATERIAL	☒ 1 STEEL/IRON ☐ 5 CONCRETE ☐ 9 BRONZE	☐ 2 STAINLESS STEEL ☐ 6 POLYVINYL CHLORIDE ☐ 10 GALVANIZED STEEL	☐ 3 FIBERGLASS ☐ 7 ALUMINUM ☐ 95 UNKNOWN	☐ 4 STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC ☐ 8 100% METHANOL COMPATIBLE FRP ☐ 99 OTHER
C. INTERIOR LINING	☐ 1 RUBBER LINED ☐ 5 GLASS LINING ☐ IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL?	☐ 2 ALKYD LINING ☒ 6 UNLINED	☐ 3 EPOXY LINING ☐ YES ☐ NO	☐ 4 PHENOLIC LINING ☐ 95 UNKNOWN ☐ 99 OTHER
D. CORROSION PROTECTION	☐ 1 POLYETHLENE WRAP ☐ 5 CATHODIC PROTECTION	☐ 2 TAR OR ASPHALT ☒ 91 NONE	☐ 3 VINYL WRAP ☐ 95 UNKNOWN	☐ 4 FIBERGLASS REINFORCED PLASTIC ☐ 99 OTHER

V. 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		

VI. 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

VII. INFORMATION ON TANK PERMANENTLY CLOSED IN PLACE

1. ESTIMATED DATE LAST USED (MO/YR)	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING IN	3. WAS TANK FILLED WITH INERT MATERIAL?
STILL BEING USED 12/90	Ø GALLONS	☐ 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
M. SCHWEICKERT-STARY, M. Schweickert-Stary	12-12-90

LOCAL AGENCY USE ONLY — SCOTT CO. OF CALIFORNIA

COUNTY #	JURISDICTION #	AGENCY #	FACILITY ID #	TANK ID #

CURRENT LOCAL AGENCY FACILITY ID #	APPROVED BY NAME	PHONE # WITH AREA CODE

PERMIT NUMBER	PERMIT APPROVAL DATE	PERMIT EXPIRATION DATE

CHECK #	PERMIT AMOUNT	SURCHARGE AMT.	FEE CODE	RECEIPT #	BY:

FORM B (6-29-88) THIS FORM MUST BE ACCOMPANIED BY A FACILITY/SITE APPLICATION, FORM 'A', UNLESS A CURRENT FORM 'A' HAS BEEN FILED

DATA PROCESSING COPY

STATE OF CALIFORNIA — WATER RESOURCES CONTROL BOARD

FORM 'B': TANK

UNDERGROUND STORAGE TANK PROGRAM
TANK PERMIT APPLICATION INFORMATION

COMPLETE A SEPARATE FORM WITH THE FOLLOWING INFORMATION FOR EACH TANK.

No. 29223

MARK ONLY ONE ITEM

- [ ] 1 NEW PERMIT
- [ ] 2 INTERIM PERMIT
- [ ] 3 RENEWAL PERMIT
- [ ] 4 AMENDED PERMIT
- [ ] 5 CHANGE OF INFORMATION
- [ ] 6 TEMPORARY TANK CLOSURE
- [ ] 7 PERMANENTLY CLOSED TANK
- [x] 8 TANK REMOVED

FACILITY/SITE NAME WHERE TANK IS INSTALLED: SAN LEANDRO RENTALS **FARM TANK - YES** [ ] **NO** [x]

I. TANK DESCRIPTION — COMPLETE ALL ITEMS - IF UNKNOWN — SO SPECIFY

A. OWNERS TANK ID # CAC-000544944	B. MANUFACTURED BY: UNKNOWN
C. YEAR INSTALLED APPROX. 1968-1970	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.
- [ ] 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. # N/A C.A.S. #: N/A

III. TANK CONSTRUCTION — MARK ONE ITEM ONLY IN BOX A, B, C, & D

A. TYPE OF SYSTEM
- [ ] 1 DOUBLE WALLED
- [x] 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
- [x] 6 UNLINED
- [ ] 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
- [x] 91 NONE
- [ ] 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

VI. INFORMATION ON TANK PERMANENTLY CLOSED IN PLACE

1. ESTIMATED DATE LAST USED (MO/YR)	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING IN	3. WAS TANK FILLED WITH INERT MATERIAL?
~~1990~~ STILL BEING USED	~~0~~ GALLONS	[ ] 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
M. SCHWEICKERT-STARY, M. Schweickert-Stary	12-12-90

LOCAL AGENCY USE ONLY — SCOTT CO. OF CALIFORNIA

COUNTY #	JURISDICTION #	AGENCY #	FACILITY ID #	TANK ID #
01	007		507	3

CURRENT LOCAL AGENCY FACILITY ID #	APPROVED BY NAME	PHONE # WITH AREA CODE
507		

PERMIT NUMBER	PERMIT APPROVAL DATE	PERMIT EXPIRATION DATE

CHECK #	PERMIT AMOUNT	SURCHARGE AMT.	FEE CODE	RECEIPT #	BY:

FORM B (6-29-88) **THIS FORM MUST BE ACCOMPANIED BY A FACILITY/SITE APPLICATION, FORM 'A', UNLESS A CURRENT FORM 'A' HAS BEEN FILED**

STATE OF CALIFORNIA — WATER RESOURCES CONTROL BOARD

FORM 'A':
SITE

UNDERGROUND STORAGE TANK PROGRAM
FACILITY/SITE, INFORMATION and/or PERMIT APPLICATION

COMPLETE THIS FORM FOR EACH FACILITY/SITE

No. 35386

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: SAN LEANDRO RENTALS	CARE OF ADDRESS INFORMATION: VICTOR D. BALDI, JR.
ADDRESS: 14273 WASHINGTON AVENUE	NEAREST CROSS STREET: 143RD AVENUE
CITY NAME: SAN LEANDRO	STATE: CA / ZIP CODE: 94578 / SITE PHONE #, WITH AREA CODE: 415) 357-5900
TYPE OF BUSINESS: ☐ 1 GAS STATION ☐ 2 DISTRIBUTOR ☐ 3 FARM ☐ 4 PROCESSOR ☒ 5 OTHER	☐ Box if INDIAN RESERVATION or TRUST LANDS
EPA ID #: CAC-000544944	# of TANK's AT THIS SITE: 1

EMERGENCY CONTACT PERSON (PRIMARY)	EMERGENCY CONTACT PERSON (SECONDARY)
DAYS: NAME (LAST, FIRST): ~~the~~ BALDI, SR. VICTOR — PHONE # WITH AREA CODE: 415) 357-5900	DAYS: NAME (LAST, FIRST): BALDI, JR. VICTOR — PHONE # WITH AREA CODE: 415) 357-5900
NIGHTS: NAME (LAST, FIRST): BALDI, JR. VICTOR — PHONE # WITH AREA CODE: 415) 581-0694	NIGHTS: NAME (LAST, FIRST): BALDI, SR. VICTOR — PHONE # WITH AREA CODE: 415) 581-0338

II. PROPERTY OWNER INFORMATION & ADDRESS — (MUST BE COMPLETED)

NAME: SAN LEANDRO RENTALS	CARE OF ADDRESS INFORMATION: VICTOR D. BALDI, JR.
MAILING or STREET ADDRESS: 14273 WASHINGTON AVENUE	☑ Box to indicate ☒ CORPORATION ☐ INDIVIDUAL ☐ PARTNERSHIP ☐ LOCAL-AGENCY ☐ COUNTY-AGENCY ☐ STATE-AGENCY ☐ FEDERAL-AGENCY
CITY NAME: SAN LEANDRO	STATE: CA / ZIP CODE: 94578 / PHONE #, WITH AREA CODE: 415) 357-5900

III. TANK OWNER INFORMATION & ADDRESS — (MUST BE COMPLETED)

NAME: SAN LEANDRO RENTALS	CARE OF ADDRESS INFORMATION: VICTOR D. BALDI, JR.
MAILING or STREET ADDRESS: 14273 WASHINGTON AVENUE	☑ Box to indicate ☒ CORPORATION ☐ INDIVIDUAL ☐ PARTNERSHIP ☐ LOCAL-AGENCY ☐ COUNTY-AGENCY ☐ STATE-AGENCY ☐ FEDERAL-AGENCY
CITY NAME: SAN LEANDRO	STATE: CA / ZIP CODE: 94578 / PHONE #, WITH AREA CODE: 415) 357-5900

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
M. SCHWENCKERT-STARY, M. Schwenckert Stary	12-12-90

LOCAL AGENCY USE ONLY

SCOTT CO. OF CALIFORNIA

COUNTY #	JURISDICTION #	AGENCY #	FACILITY ID #	# of TANKS at SITE
01	007		507	2

CURRENT LOCAL AGENCY FACILITY ID #	APPROVED BY NAME	PHONE # WITH AREA CODE
507	M Baldi	

PERMIT NUMBER	PERMIT APPROVAL DATE	PERMIT EXPIRATION DATE
507	2/4/91	7/1/95

LOCATION CODE	CENSUS TRACT #	SUPERVISOR-DISTRICT CODE	BUSINESS PLAN FILED	DATE FILED
			YES ☐ NO ☐	

CHECK #	PERMIT AMOUNT	SURCHARGE AMOUNT	FEE CODE	RECEIPT #	BY:

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE TANK PERMIT FORM 'B' APPLICATION(S), UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.

FORM A (3-2-88)

LOCAL AGENCY COPY

De Celle & Associates, Inc.
211 Frustuck Avenue
Fairfax, California 94930

(415) 456-9746

Mr. Delhan

This is your copy of the recorder charts & data sheets from the tests on these tanks.
Jack

REPORT

January 23, 1990

Mr. Victor Baldi, Sr.
San Leandro Rental Service
14273 Washington Avenue
San Leandro, CA 94578

Dear Mr. Baldi:

This letter constitutes a formal report on the test results generated by your underground tanks at the above location:

Tank #1: Your 5,000-gallon unleaded gasoline tank, showed a calculated leak rate of -0.035 gallons/hour, which is within the regulatory limits. Tank #1 is certified tight.

Tank #2: Your 1000-gallon diesel tank located at the pump island shows a calculated leak rate of -0.001 gallons per hour. These results are within regulatory limites. Tank #2 is certified tight.

Tank #3: Your 1000-gallon diesel tank located at the front gate to your yard, showed a calculated leak rate of -0.003 gallons per hour. These results are within regulatory limits. The tank is certified tight.

A trace of water was found in the bottom of tank #2. Weather protect should be added to all three vents where they are terminated at the pump island.

Copies of this report and of the data sheets and recorder charts are being sent to the Alameda Dept. of Environmental Heath. If they require any permitting acticity from you they will write to you.

Sincerely,

Jack de Celle

Jack de Celle
JdC:ag
CC Ed Howell

FIRE DEPARTMENT
JAN 26 1990
CITY OF SAN LEANDRO

De Celle & Associates, Inc.
211 Frustuck Avenue
Fairfax, California 94930

(415) 456-9746

UNDERGROUND TANK
PRECISION LEAK TEST
DATA SHEET

FACILITY SAN LEANDRO CHEVRON OPERATOR V. C BALDI
STREET 14273 WASHINGTON TELEPHONE 357-5900
CITY SAN LEANDRO INITIAL TEST IN 1990
DATE 1/20/90 AMBIENT TEMP 50°F START 1050 COMPLETION
TANK NO. 1 STARTING TEST LEVEL +40" TEST METHOD HORNER
CAPACITY 5000 MATERIAL U.L. WATER NONE INITIAL L.L. - 4"
TANK DIMENSIONS: BOTTOM 122 API GRAVITY 57.5 @ 46° F
TOP 77 COEFFICIENT .000607
DIAMETER 95 TEMP CORRECTION FACTOR 3,150 gal/°F
DISPLACEMENT .050 CHART CALIBRATION 40 CALIBRATION FACTOR .0012 5/16

TIME MINUTES	LEVEL START	LEVEL END	LEVEL CHANGE	TEMP START	TEMP END	DENSITY EFFECT	NET RESULT
15	88	40		59.177	.180		
30	40	ADJ		.180	.178		
45	95	68	-.0237	.178	.166	+.0402	+.0165
60	68	39	-.0275	.166	.160	+.0201	-.0174
75	39	14	-.0300	.160	.153	+.0234	-.0066
90	95	68	-.0237	.153	.148	+.0167	-.0070
105	68	39	-.0352	.148	.143	+.0167	-.0185
120	39	12	-.0237	.143	.137	+.0201	-.0036

THIS TEST AND THESE CALCULATIONS FULLY COMPLY WITH NFPA 329 AND CALIFORNIA REGULATIONS. HOWEVER, THESE CALCULATIONS ONLY REPRESENT DATA CORRELATION AND THE ACTUAL LEAK RATE MAY DIFFER SIGNIFICANTLY DUE TO VARIABLES BEYOND THE TESTER'S CONTROL.

CALCULATED LEAK RATE .035 GPH CERTIFIED CORRECT Darrell De Celle

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY ☐ YES ☒ NO

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☒ NO

REPORT DATE: 05/21/91

CASE #:

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 SAFTY CODE.
SIGNED: Michael Bakaldin DATE: 5/21/91

REPORTED BY
NAME OF INDIVIDUAL FILING REPORT: Michael Bakaldin
PHONE: (415)577-3331
SIGNATURE: Michael Bakaldin
REPRESENTING: ☒ LOCAL AGENCY ☐ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ OTHER
COMPANY OR AGENCY NAME: San Leandro Fire Dept.
ADDRESS: 835 East 14th STREET Street CITY San Leandro STATE CA ZIP 94577

RESPONSIBLE PARTY
NAME: Victor Baldi ☐ UNKNOWN
CONTACT PERSON:
PHONE: (415) 357-5900
ADDRESS: 14273 STREET Washington Ave CITY San Leandro STATE CA ZIP 94578

SITE LOCATION
FACILITY NAME (IF APPLICABLE): San Leandro Rental
OPERATOR: Victor Baldi
PHONE: (415)357-5900
ADDRESS: 14273 STREET Washington Ave CITY San Leandro COUNTY Alameda ZIP 94578
CROSS STREET: 143rd Ave

IMPLEMENTING AGENCIES
LOCAL AGENCY: San Leandro AGENCY NAME: F. D.
CONTACT PERSON: Michael Bakaldin
PHONE: (415)577-3331
REGIONAL BOARD: San Francisco Bay
CONTACT PERSON: R. Hyatt
PHONE: ( )

SUBSTANCES INVOLVED
(1) NAME: Diesel QUANTITY LOST (GALLONS): ☒ UNKNOWN
(2) ☐ UNKNOWN

DISCOVERY/ABATEMENT
DATE DISCOVERED: 01/07/91
HOW DISCOVERED: ☐ TANK TEST ☐ INVENTORY CONTROL ☒ TANK REMOVAL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ OTHER
DATE DISCHARGE BEGAN: ☒ UNKNOWN
HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE
METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
☒ REMOVE CONTENTS ☐ REPLACE TANK ☐ CLOSE TANK
☐ REPAIR TANK ☐ REPAIR PIPING ☐ CHANGE PROCEDURE
☒ OTHER Remove tank

SOURCE/CAUSE
SOURCE OF DISCHARGE: ☐ TANK LEAK ☐ PIPING LEAK ☒ UNKNOWN ☐ OTHER
CAUSE(S): ☐ OVERFILL ☐ CORROSION ☐ RUPTURE/FAILURE ☒ UNKNOWN ☐ SPILL ☐ 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)
☐ REMOVE FREE PRODUCT (FP) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ TREATMENT AT HOOKUP (HU)
☐ ENHANCED BIO DEGRADATION (IT) ☐ REPLACE SUPPLY (RS) ☐ VENT SOIL (VS)

COMMENTS

HSC 05 (11/89)

INSTRUCTIONS

EMERGENCY
Indicate whether emergency response personnel and equipment were involved at any time. If so, a Hazardous Material Incident Report should be filed with the State Office of Emergency Services (OES) at 2800 Meadowview Road, Sacramento, CA 95832. Copies of the OES report form may be obtained at your local underground storage tank permitting agency. Indicate whether the OES report has been filed as of the date of this report.

LOCAL AGENCY ONLY
To avoid duplicate notification pursuant to Health and Safety code Section 25180.7, a designated government employee should sign and date the form in this block. A signature here does not mean that the leak has been determined to pose a significant threat to human health or safety, only that notification procedures have been followed if required.

REPORTED BY
Enter your name, telephone number, and address. Indicate which party you represent and provide company or agency name.

RESPONSIBLE PARTY
Enter name, telephone number, contact person, and address of the party responsible for the leak. The responsible party would normally be the tank owner.

SITE LOCATION
Enter information regarding the tank facility. At a minimum, you must provide the facility name and full address.

IMPLEMENTING AGENCIES
Enter names of the local agency and Regional Water Quality Control Board involved.

SUBSTANCES INVOLVED
Enter the name and quantity lost of the hazardous substance involved. Room is provided for information on two substances if appropriate. If more than two substances leaked, list the two of most concern for cleanup.

DISCOVERY/ABATEMENT
Provide information regarding the discovery and abatement of the leak.

SOURCE/CAUSE
Indicate source(s) of leak. Check box(es) indicating cause of leak.

CASE TYPE
Indicate the case type category for this leak. Check one box only. Case type is based on the most sensitive resource affected. For example, if both soil and ground water have been affected, case type will be "Ground Water". Indicate "Drinking Water" only if one or more municipal or domestic water wells have actually been affected. A "Ground Water" designation does not imply that the affected water cannot be, or is not, used for drinking water, but only that water wells have not yet been affected. It is understood that case type may change upon further investigation.

CURRENT STATUS
Indicate the category which best describes the current status of the case. Check one box only. The respons should be relative to the case type. For example, if case type is "Ground Water", then "Current Status" should refer to the status of the ground water investigation or cleanup, as opposed to that of soil. Descriptions of options follow:

No Action Taken - No action has been taken by responsible party beyond initial report of leak.
Leak Being Confirmed - Leak suspected at site, but has not been confirmed.
Preliminary Site Assessment Workplan Submitted - workplan/proposal requested of/submitted by responsible party to determine whether ground water has been, or will be, impacted as a result of the release.
Preliminary Site Assessment Underway - implementation of workplan.
Pollution Characterization - responsible party is in the process of fully defining the extent of contamination in soil and ground water and assessing impacts on surface and/or ground water.
Remediation Plan - remediation plan submitted evaluating long term remediation options. Proposal and implementation schedule for appropriate remediation options also submitted.
Cleanup Underway - implementation of remediation plan.
Post Cleanup Monitoring in Progress - periodic ground water or other monitoring at site, as necessary, to verify and/or evaluate effectiveness of remedial activities.
Case Closed - regional board and local agency in concurrence that no further work is necessary at the site.

IMPORTANT: THE INFORMATION PROVIDED ON THIS FORM IS INTENDED FOR GENERAL STATISTICAL PURPOSES ONLY AND IS NOT TO BE CONSTRUED AS REPRESENTING THE OFFICIAL POSITION OF ANY GOVERNMENTAL AGENCY

REMEDIAL ACTION
Indicate which action have been used to cleanup or remediate the leak. Descriptions of options follow:

Cap Site - install horizontal impermeable layer to reduce rainfall infiltration.
Containment Barrier - install vertical dike to block horizontal movement of contaminant.
Excavate and Dispose - remove contaminated soil and dispose in approved site.
Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming).
Remove Free Product - remove floating product from water table.
Pump and Treat Groundwater - generally employed to remove dissolved contaminants.
Enhanced Biodegradation - use of any available technology to promote bacterial decomposition of contaminants.
Replace Supply - provide alternative water supply to affected parties.
Treatment at Hookup - install water treatment devices at each dwelling or other place of use.
Vacuum Extract - use pumps or blowers to draw air through soil.
Vent Soil - bore holes in soil to allow volatilization of contaminants.
No Action Required - incident is minor, requiring no remedial action.

COMMENTS - Use this space to elaborate on any aspects of the incident.

SIGNATURE - Sign the form in the space provided.

DISTRIBUTION
If the form is completed by the tank owner or his agent, retain the last copy and forward the remaining copies intact to your local tank permitting agency for distribution.

1. Original - Local Tank Permitting Agency
2. State Water Resources Control Board, Division of Loans and Grants, Underground Storage Tank Program, P.O. Box 944212, Sacramento, CA 94244-2120
3. Regional Water Quality Control Board
4. County Board of Supervisors or designee to receive Proposition 65 notifications.
5. Owner/responsible party.

De Celle & Associates, Inc.
211 Frustuck Avenue
Fairfax, California 94930

(415) 456-9746

UNDERGROUND TANK
PRECISION LEAK TEST
DATA SHEET

FACILITY San Leandro Rental OPERATOR Vic Baldi
STREET 14273 Washington TELEPHONE 357-5900
CITY San Leandro INITIAL TEST IN 1990
DATE 1/20/90 AMBIENT TEMP 42° F START 0944 COMPLETION
TANK NO. 2 STARTING TEST LEVEL + 44" TEST METHOD Horner
CAPACITY 1000 MATERIAL Diesel WATER 1" INITIAL L.L. At Grade
TANK DIMENSIONS: BOTTOM 74 API GRAVITY 32 @ 44° F
TOP 23 COEFFICIENT .000449
DIAMETER 46 TEMP CORRECTION FACTOR .449
DISPLACEMENT .0125 CHART CALIBRATION 60 CALIBRATION FACTOR .000208

TIME MINUTES	LEVEL START	LEVEL END	LEVEL CHANGE	TEMP START	TEMP END	DENSITY EFFECT	NET RESULT
15	85	73		55.928	.946		
30	73	64		.946	.965		
45	64	53		.965	.958		
60	53	43	-.0020	.958	.947	-.0054	+.0034
75	43	33	-.0020	.947	.947	.0000	-.0020
90	33	23	-.0020	.947	.957	.0044	+.0024
105	23	20	-.0006	.957	.965	-.0055	+.0029
120	20	12	-.0016	.965	.961	-.0017	+.0001

THIS TEST AND THESE CALCULATIONS FULLY COMPLY WITH NFPA 329 AND CALIFORNIA REGULATIONS. HOWEVER, THESE CALCULATIONS ONLY REPRESENT DATA CORRELATION AND THE ACTUAL LEAK RATE MAY DIFFER SIGNIFICANTLY DUE TO VARIABLES BEYOND THE TESTER'S CONTROL.

CALCULATED LEAK RATE +.003 GPH CERTIFIED CORRECT Jack de Celle

De Celle & Associates, Inc.
211 Frustuck Avenue
Fairfax, California 94930

(415) 456-9746

UNDERGROUND TANK
PRECISION LEAK TEST
DATA SHEET

FACILITY San Leandro Rental OPERATOR Vic Raldi
STREET 14273 Washington TELEPHONE 357-5900
CITY San Leandro INITIAL TEST IN 1990
DATE 1/20/92 AMBIENT TEMP 52°F START 1330 COMPLETION
TANK NO. 3 STARTING TEST LEVEL +40" TEST METHOD Horner
CAPACITY 1000 g MATERIAL Diesel WATER None INITIAL L.L. At Grade
TANK DIMENSIONS: BOTTOM 75" API GRAVITY 31.7° @ 60° F
TOP 70" COEFFICIENT .000443
DIAMETER 45" TEMP CORRECTION FACTOR .443
DISPLACEMENT .0125 CHART CALIBRATION 56 CALIBRATION FACTOR .000223

TIME MINUTES	LEVEL START	LEVEL END	LEVEL CHANGE	TEMP START	TEMP END	DENSITY EFFECT	NET RESULT
15	92	92	.0000	58.561	.551	+.0044	
30	92	91	-.0002	.551	.546	+.0022	+.0020
45	91	90	-.0002	.546	.539	+.0031	+.0029
60	90	87	-.0006	.539	.539	.0000	-.0006
75	73 IN	70	-.0006	.539	.540	.0004	-.0002
90	70	68	-.0004	.540	.540	.0000	-.0004
105	68	67	-.0002	.540	.541	-.0004	-.0006
120	67	64	-.0006	.541	.540	+.0004	-.0002

THIS TEST AND THESE CALCULATIONS FULLY COMPLY WITH NFPA 329 AND CALIFORNIA REGULATIONS. HOWEVER, THESE CALCULATIONS ONLY REPRESENT DATA CORRELATION AND THE ACTUAL LEAK RATE MAY DIFFER SIGNIFICANTLY DUE TO VARIABLES BEYOND THE TESTER'S CONTROL.

CALCULATED LEAK RATE .0017 GPH CERTIFIED CORRECT Mark de Celle

STATE OF CALIFORNI[illegible] WATER RESOURCES CONTR[illegible]OARD

FORM 'B': TANK

UNDERGROUND STORAGE TANK PROGRAM
TANK PERMIT APPLICATION INFORMATION

COMPLETE A SEPARATE FORM WITH THE FOLLOWING INFORMATION FOR EACH TANK.

MARK ONLY ONE ITEM

- [X] 1 NEW PERMIT
- [ ] 2 INTERIM PERMIT
- [ ] 3 RENEWAL PERMIT
- [ ] 4 AMENDED PERMIT
- [ ] 5 CHANGE OF INFORMATION
- [ ] 6 TEMPORARY TANK CLOSURE
- [ ] 7 PERMANENTLY CLOSED TANK
- [ ] 8 TANK REMOVED

FACILITY/SITE NAME WHERE TANK IS INSTALLED: SAN LEANDRO RENTAL SERVICE, INC. **FARM TANK - YES** [ ] **NO** [X]

No. 9676

I. TANK DESCRIPTION COMPLETE ALL ITEMS - IF UNKNOWN — SO SPECIFY

A. OWNERS TANK ID # 1	B. MANUFACTURED BY: UNKNOWN
C. YEAR INSTALLED XXXX UNKNOWN	D. TANK CAPACITY IN GALLONS: XX 5,000

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.
- [ ] 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. #:

xIII. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOX A, B, C, & D

A. TYPE OF SYSTEM
- [ ] 1 DOUBLE WALLED
- [X] 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
- [X] 6 UNLINED
- [ ] 95 UNKNOWN
- IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? [ ] YES [ ] NO
- [ ] 99 OTHER

D. CORROSION PROTECTION
- [ ] 1 POLYETHLENE WRAP
- [X] 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 99 OTHER	
B. CONSTRUCTION	A (U) 1 SINGLE WALLED	A U 2 DOUBLE WALLED	A U 3 LINED TRENCH	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 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

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
BALDI, VICTOR D. Victor D Baldi	9/15/88

LOCAL AGENCY USE ONLY

COUNTY #	JURISDICTION #	AGENCY #	FACILITY ID #	TANK ID #
01	007	001	000150	1

CURRENT LOCAL AGENCY FACILITY ID #	APPROVED BY NAME	PHONE # WITH AREA CODE
SL 0001s001	NOLAN, ROBERT E.	415-577-3318

PERMIT NUMBER	PERMIT APPROVAL DATE	PERMIT EXPIRATION DATE
19826	SEPTEMBER 28, 1988	SEPTEMBER 27, 1989

CHECK #	PERMIT AMOUNT	SURCHARGE AMT.	FEE CODE	RECEIPT #	BY:
3047	$70.00 1st TANK	$56.00		19826	R Nolan

FORM B (3-7-88) **THIS FORM MUST BE ACCOMPANIED BY A FACILITY/SITE APPLICATION, FORM 'A', UNLESS A CURRENT FORM 'A' HAS BEEN FILED**

STATE OF CALIFORNIA — WATER RESOURCES CONTROL BOARD

FORM 'B': TANK

UNDERGROUND STORAGE TANK PROGRAM
TANK PERMIT APPLICATION INFORMATION

COMPLETE A SEPARATE FORM WITH THE FOLLOWING INFORMATION FOR EACH TANK.

MARK ONLY ONE ITEM

- [X] 1 NEW PERMIT
- [ ] 2 INTERIM PERMIT
- [ ] 3 RENEWAL PERMIT
- [ ] 4 AMENDED PERMIT
- [ ] 5 CHANGE OF INFORMATION
- [ ] 6 TEMPORARY TANK CLOSURE
- [ ] 7 PERMANENTLY CLOSED TANK
- [ ] 8 TANK REMOVED

FACILITY/SITE NAME WHERE TANK IS INSTALLED: SAN LEANDRO RENTAL SERVICE, INC. **FARM TANK - YES** [ ] **NO** [X]

No 6677

I. TANK DESCRIPTION — COMPLETE ALL ITEMS - IF UNKNOWN — SO SPECIFY

A. OWNERS TANK ID # 2	B. MANUFACTURED BY: UNKNOWN
C. YEAR INSTALLED 1972	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.
- [ ] 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. #:

xIII. TANK CONSTRUCTION — MARK ONE ITEM ONLY IN BOX A, B, C, & D

A. TYPE OF SYSTEM
- [ ] 1 DOUBLE WALLED
- [X] 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
- [X] 6 UNLINED
- [ ] 95 UNKNOWN
- [ ] IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? [ ] YES [ ] NO
- [ ] 99 OTHER

D. CORROSION PROTECTION
- [ ] 1 POLYETHELENE WRAP
- [X] 2 TAR OR ASPHALT
- [ ] 3 VINYL WRAP
- [ ] 4 FIBERGLASS REINFORCED PLASTIC
- [ ] 5 CATHODIC PROTECTION
- [ ] 91 NONE
- [ ] 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 99 OTHER			
B. CONSTRUCTION	A (U) 1 SINGLE WALLED	A U 2 DOUBLE WALLED	A U 3 LINED TRENCH	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 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

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
BALDI, VICTOR D. Victor D Baldi	9/15/88

LOCAL AGENCY USE ONLY

COUNTY #	JURISDICTION #	AGENCY #	FACILITY ID #	TANK ID #
01	007	001	0001S0	2

CURRENT LOCAL AGENCY FACILITY ID #	APPROVED BY NAME	PHONE # WITH AREA CODE
SL 0001S002	NOLAN, ROBERT E.	415-577-3318

PERMIT NUMBER	PERMIT APPROVAL DATE	PERMIT EXPIRATION DATE
19826	SEPTEMBER 28, 1988	SEPTEMBER 27, 1989

CHECK #	PERMIT AMOUNT	SURCHARGE AMT.	FEE CODE	RECEIPT #	BY:
3047	$35.00 2nd TANK	$56.00 STATE		19826	R. Nolan

FORM B (3-7-88) **THIS FORM MUST BE ACCOMPANIED BY A FACILITY/SITE APPLICATION, FORM 'A', UNLESS A CURRENT FORM 'A' HAS BEEN FILED**

LOCAL AGENCY COPY

UNDERGROUND STORAGE TANK INFORMATION

SITE I. D. #: _____

COMPANY NAME: San Leandro Rental Service, INC.

ADDRESS: 14273 Washington Avenue

OWNER'S NAME: Victor D. Baldi

ADDRESS: 5394 Elaine Ct.

CITY: Castro Valley STATE: CA ZIP: 94546

BILLING INFORMATION

NAME: San Leandro Rental Service, Inc.

ADDRESS: 14273 Washington Avenue

CITY: San Leandro STATE: CA ZIP: 94578

SAN LEANDRO REGISTRATION DATE: 9-28-88 CITY FEES: Y 9-28-88

STATE REGISTRATION DATE: 9-28-88 STATE FEES: Y 9-28-88

LEAK OPTION: #2, #7

NUMBER OF TANKS: 3

NON-FUEL TANKS ON SIGHT(Y/N:) N

TANK REMOVAL DATE: _____ TANK CLOSURE DATE: _____

TEST RESULTS/COMMENTS: _____

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK)/CONTAMINATION SITE REPORT

EMERGENCY ☐ YES ☒ NO — HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☒ NO

STATE TANK ID #:

REPORT DATE: 0 M 9 M 1 D 4 D 8 Y 8 Y

LOCAL CASE #: BY ADDRESS

REGIONAL BOARD CASE #:

US EPA ID #:

REPORTED BY

NAME OF INDIVIDUAL FILING REPORT: NOLAN, ROBERT E.

PHONE: (415) 577-3318

SIGNATURE: Robert E. Nolan

REPRESENTING ☒ LOCAL AGENCY ☐ OTHER ☐ OWNER/OPERATOR ☐ REGIONAL BOARD

COMPANY OR AGENCY NAME: CITY OF SAN LEANDRO - FIRE PREVENTION BUREAU

ADDRESS: 835 STREET EAST 14th STREET CITY SAN LEANDRO STATE CALIF ZIP 94577

RESPONSIBLE PARTY

NAME: MR. VICTOR D. BALDI ☐ UNKNOWN

CONTACT PERSON: SAME

PHONE: (415) 357-5900

ADDRESS: 14273 STREET WASHINGTON AVENUE CITY SAN LEANDRO STATE CALIF ZIP 94578

SITE LOCATION

FACILITY NAME (IF APPLICABLE): SAN LEANDRO RENTAL (EQUIPMENT)

OPERATOR: MR. VICTOR D. BALDI

PHONE: (415) 357-5900

ADDRESS: 14273 STREET WASHINGTON AVENUE CITY SAN LEANDRO COUNTY ALAMEDA ZIP 94578

CROSS STREET: 143rd AVENUE

TYPE OF AREA ☒ COMMERCIAL ☐ INDUSTRIAL ☐ RESIDENTIAL ☐ RURAL ☐ OTHER

TYPE OF BUSINESS ☐ RETAIL FUEL STATION ☐ UNKNOWN ☒ OTHER EQUIPMENT RENTAL

IMPLEMENTING AGENCIES

LOCAL AGENCY / AGENCY NAME: CITY OF SAN LEANDRO FIRE PREVENTION BUREAU

CONTACT PERSON: NOLAN, ROBERT E.

PHONE: (415) 577-3318

REGIONAL BOARD:

PHONE: ( )

TSCD:

PHONE: ( )

SUBSTANCES INVOLVED

CAS # (ATTACH EXTRA SHEET IF NEEDED) NAME

(1) GASOLINE — QUANTITY LOST (GALLONS): .056 GPH. ☐ UNKNOWN

(2) ☐ UNKNOWN

DISCOVERY/ABATEMENT

DATE DISCOVERED: 0 M 4 M 1 D 5 D 8 Y 7 Y

HOW DISCOVERED ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ ROUTINE MONITORING ☐ TANK REMOVAL ☐ NUISANCE CONDITIONS ☒ OTHER: TANK TESTING

DATE DISCHARGE BEGAN: M M D D Y Y ☒ UNKNOWN

HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE: UNKNOWN M M D D Y Y

METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)

☐ REMOVE CONTENTS ☐ REPLACE TANK ☐ CLOSE TANK ☐ REPAIR TANK ☒ REPAIR PIPING ☐ CHANGE PROCEDURES ☒ OTHER AWAITING PAPERWORK, WHO DID THE REPAIR.

SOURCE/CAUSE

SOURCE(S) OF DISCHARGE: ☐ TANK LEAK ☐ UNKNOWN ☒ PIPING LEAK ☐ OTHER (SPECIFY)

TANKS ONLY/CAPACITY: 5000 GAL

AGE: 16 YRS. ☐ UNKNOWN

MATERIAL: ☒ STEEL ☐ FIBERGLASS ☐ OTHER

CAUSE(S): ☐ OVERFILL ☐ CORROSION ☐ RUPTURE/FAILURE ☐ SPILL ☒ UNKNOWN ☐ OTHER

RESOURCES AFFECTED/AT RISK

RESOURCES AFFECTED	YES	NO	THREATENED	UNKNOWN
AIR (VAPOR)	☐	☐	☐	☒
SOIL (VADOSE ZONE)	☐	☐	☐	☒
GROUNDWATER	☐	☐	☐	☒
SURFACE WATER OR STORM DRAIN	☐	☐	☐	☒
BUILDING OR UTILITY VAULT	☐	☐	☐	☒
OTHER (SPECIFY)	☐	☐	☐	☐

GROUNDWATER BASIN NAME: ☒ UNKNOWN

WATER SUPPLIES AFFECTED	YES	NO	THREATENED	UNKNOWN	# OF WELLS
PUBLIC DRINKING WATER	☐	☒	☐	☐	
PRIVATE DRINKING WATER	☐	☒	☐	☐	
INDUSTRIAL	☐	☒	☐	☐	
AGRICULTURAL	☐	☒	☐	☐	
OTHER (SPECIFY)	☐	☐	☐	☐	

COMMENTS

COMMENTS: ~~XXXXX~~ WELLS FARGO BANK (TRINDY LEAHY) CALLED REGARDINGTHE ABOVE MENTIONED BUSINESS PULLED THE FILE AND OBTAINED THE FOLLOWING INFORMATION. SEE ATTACHED PAPERS.

THE PIPING HAS BEEN REPAIRED AND THE TANKS RETESTED. AWAITING THE PAPERWORK. TEST DATED 4/15/87 INDICATES .056 GPH CALCULATED LEAK RATE. THE TANKS WERE INSTALLED IN 1972 AND THIS WAS THE ONLY TANK/PIPING TEST. PERMITS BEING FILLED OUT FOR UNDERGROUND COMPLIANCE.

COMPLETE AND ATTACH A CLEANUP TRACKING REPORT IF ANY CLEANUP WORK OR PLANNING HAS STARTED

UTC 05 (10/85)

INSTRUCTIONS

1. GENERAL

In box titled "EMERGENCY", indicate whether emergency response personnel and equipment were involved at any time. If so, a Hazardous Material Incident Report should be filed with the State Office of Emergency Services (OES) at 2800 Meadowview Road, Sacramento, CA 95832. Copies of the OES report form may be obtained at your local underground tank permitting agency. Indicate whether the OES report has been filed as of the date of this report.

In space provided, enter state tank ID number if known. State ID numbers have been assigned to all tanks that are on file with the State Water Resources Control Board. Enter today's date in the box titled "Report Date". Enter local and Regional Water Quality Control Board case numbers if known. Enter the US EPA facility number if applicable.

2. REPORTED BY

Enter your name, telephone number and address. Indicate which party you represent, and provide company or agency name.

3. RESPONSIBLE PARTY

Enter the name, telephone number, contact person, and address of the party responsible for the leak, or mark unknown. For tank leaks, the responsible party would normally be the tank owner.

4. SITE LOCATION

Enter information regarding the tank facility and surrounding area. If a known tank or facility is not involved, enter general location of the contamination site as best possible; i.e., street, city, county, zip, cross street, and type of area.

5. IMPLEMENTING AGENCIES

Enter names of the local agency, Regional Board and/or Toxic Substances Control Division (TSCD) regional office involved and a contact person and telephone number for each.

6. SUBSTANCES INVOLVED

Enter the CAS number(s) (if known), name(s), and quantities lost of all hazardous substances involved. Attach an extra sheet if more than two substances are involved. Be as specific as possible.

7. DISCOVERY/ABATEMENT

Provide information regarding the discovery and abatement of the discharge. More than one box may be checked in the sections titled "How Discovered" and "Method Used To Stop Discharge" if appropriate.

8. SOURCE/CAUSE

Indicate source(s) of discharge. Provide details on tank age; capacity and material if a tank is involved. Check box(es) indicating cause of discharge. More than one box may be checked if appropriate.

9. RESOURCES AFFECTED/AT RISK

In section titled "RESOURCES AFFECTED" indicate whether any of the resources listed have been affected ("YES"), will not be affected ("NO"), or may be affected ("THREATENED") by the release. Check "UNKNOWN" if unsure of the status of a resource. Specify any unlisted resources which are, or may be, involved under "OTHER". The same instructions apply to the section titled "WATER SUPPLIES AFFECTED." Give the number of water wells affected or threatened, if known. Provide the name of the groundwater basin underlying the site, if known, in the space provided.

10. COMMENTS

Use this space to elaborate on any aspects of the incident. Comments on cleanup work or planning or related investigations should be reported on a separate Cleanup Tracking Report.

11. SIGNATURE

Sign the form in the space provided.

DISTRIBUTION

Hand deliver or mail copies of the form as follows:

1) Original - Local Agency

2) State Water Resources
Control Board
Division of Water Quality
Underground Tank Program
P. O. Box 100
Sacramento, CA 95801

3) Regional Water Quality
Control Board

4) Toxic Substances Control
Division
Underground Tank Program
714/744 P Street
Sacramento, CA 95814

5) Owner/responsible party

L& CONSTRUCTION
GENERAL ENGINEERING LIC, #501873
CONCORD, CA. 94519
APRIL 27, 1987

SAN LEANDRO RENTAL SERVICE
14273 Washington Ave.
San Leandro, CA. 94578

RE: Tank & pump repair

Dear Sir,
As per our conversation we propose to repair the Leak at the tank fill and tighten the fittings on your pump and replace the concrete around the fill caps. Concrete saw & jackhammer to be furnished by San Leandro Rental Service.

LUMP SUM PRICE $650.00

(We believe he got for the concrete and L & M

Thank you
Larry Lockrem

ACCEPTED BY

Ck # 2489

FIRE DEPARTMENT
SEP 16 1988
CITY OF SAN LEANDRO

San Leandro Rental 9/8/88 - 1130 AM

Declined forms to register "Underground Storage Tanks" plus informational paperwork. —

R. Nolan

Also requested copies of repair work.
We were not informed of this Leak. - 4/15/87 -
No report. - Notified by tank test H E Harlan
It is unknown at this time if RWQCB was notified.

Mortgage Loan
Trinity Leasing - Wells Fargo Bank -
4/64 - 1870
Interested Party ✳ Wishes to be kept up to ~~date~~.

Wells Fargo Bank
P.O. Box 29243 Oakland - 94604

HOWARD E. HARLAN & ASSOCIATES, INC.
55 SAND HARBOR, ALAMEDA, CA 94501
(415) 865-3161

April 15, 1987

Mr. Victor D. Baldi
San Leandro Rental Service
14273 Washington Avenue
San Leandro, CA 94578

Dear Victor:

Here are the test results from the tanks tested on April 14 and 15. Tank identification is shown on the attached sketch.

Tank #1, the 5000 gallon U.L. gasoline tank, had a calculated leak rate of -.056 gph. This is slightly above the regulatory standards. Leaks were visible at the suction piping under the pump and at the vapor return riser. I am confident that the test results would have been within regulatory limits had these leaks not been present.

chopped off cement. Tight pipe.

Tanks #2 and #3, the 1000 gallon diesel tanks, both produced test results within the regulatory standards. Tank #2 had a calculated leak rate of +.009 gph; Tank #3 had a calculated leak rate of -.022 gph. The diesel tanks are certified tight.

Partially completed permit applications for the diesel tanks are enclosed. Sections I, II and III remain for you to complete. Your signature is required under Section VIII.

Significant amounts of water were found in Tank #1 and #2 of 3¼ inches and one-half inch, respectively. Tank #3 only showed 1/8 inch of water. I recommend that the water be removed from Tank #1 and #2, and that measures be implemented to protect surface drainage from entering the fill risers.

Please feel free to call me if you wish to discuss details further.

Sincerely,

Howard Harlan

Howard E. Harlan, P.E.

8/26/88 Per Vic — someone came in to correct this. Cindy

REGISTERED PROFESSIONAL ENGINEER
HOWARD E. HARLAN
No. 663
Exp. 3-31-88
QUALITY
STATE OF CALIFORNIA

HEH/mm
Encls.

Permit Application

☒ 01 New Permit ☐ 02 Provisional Permit	☒ 03 Installed before July 1, 1984 ☐ 04 Installed after July 1, 1984	☐ 05 Renewed Permit	☐ 06 Amended Permit

I Owner

Name (Corporation, Individual or Public Agency)
SAN LEANDRO RENTAL SERVICE, INC.

Street Address	City	State	ZIP
14273 WASHINGTON AVE	SAN LEANDRO	CA	94578

II Facility

Facility Name	Dealer/Foreman/Supervisor
SAN LEANDRO RENTAL SERVICE, INC.	

Street Address	Nearest Cross Street
14273 Washington AVe.	143 Ave

City	County	ZIP
San Leandro	Alameda	94578

Mailing Address	City	State	ZIP
same as above			

Phone w/area code	Type of Business	
415-357-5900	☐ 01 Gasoline Station	☐ 02 Other: const. rental yard

Number of Containers at this Facility	Rural Areas Only:	Township	Range	Section
3				

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
Victor D. Baldi 357-5900	Victor D. Baldi 415-581-0338

COMPLETE THE FOLLOWING ON A SEPARATE FORM FOR EACH CONTAINER

IV Description

A. ☒ 01 Tank ☐ 02 Other: _____ Container Number (if there is no number assign one): # 2

B. Manufacturer (if appropriate): _____ Year of Mfg.: _____ C. Year Installed: 1972 ☐ Unknown

D. Container Capacity: 1000 gallons ☐ Unknown E. Does the Container Store (Check One): ☐ 01 Waste ☒ 02 Product

F. Does the Container Store Motor Vehicle Fuel or Waste Oil? ☒ 01 Yes ☐ 02 No If Yes, Check appropriate box(es):
☐ 01 Unleaded ☐ 02 Regular ☐ 03 Premium ☒ 04 Diesel ☐ 05 Waste Oil ☐ 06 Other (List): _____
If you answered yes; do not complete Part VIII.

V Container Construction

A. Thickness of Primary Containment: _____ ☐ Gauge ☐ Inches ☐ cm ☒ Unknown

B. ☐ 01 Vaulted (Located in an underground Vault.) ☒ 02 Non-vaulted ☐ 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 ☐ 11 Earthen Walls
☐ 12 Unknown ☐ 13 Other: _____

Container Construction

E. ☐ 01 Rubber Lined ☐ 02 Alkyd Lining ☐ 03 Epoxy Lining ☐ 04 Phenolic Lining ☐ 05 Glass Lining ☐ 06 Clay Lining
☒ 07 Unlined ☐ 08 Unknown ☐ 09 Other: _____

F. ☐ 01 Polyethlene Wrap ☒ 02 Vinyl Wrapping ☐ 03 Cathodic Protection
☐ 04 Unknown ☐ 05 None ☐ 06 tar or asphalt ☐ 09 Other:

VI Piping

A. Aboveground Piping: ☐ 01 Double-walled pipe ☐ 02 Concrete-lined trench ☒ 03 Gravity ☐ 04 Pressure ☒ 05 Suction
(Check) appropriate box(es) ☐ 06 Unknown ☐ 07 None

B. Underground Piping: ☐ 01 Double-walled pipe ☐ 02 Concrete-lined trench ☒ 03 Gravity ☐ 04 Pressure ☒ 05 Suction
(Check) appropriate box(es) ☐ 06 Unknown ☐ 07 None

VII Leak Detection

☒ 01 Visual ☒ 02 Stock Inventory ☐ 03 Tile Drain ☐ 04 Vapor Sniff Wells ☐ 05 Sensor Instrument
☐ 06 Ground Water Monitoring Wells ☐ 07 Pressure Test ☐ 08 Internal Inspection ☐ 09 None
☒ 10 Other: ANNUAL PRECISION LEAK TEST

VIII Chemical Composition of Materials *Currently* or *Previously* Stored in Underground Containers

If you checked yes to IV-F you are not required to complete this section.

currently stored	previously stored	CAS # (If known)	Chemical Do Not Use Commercial Name (Use additional paper for more room
☐ 01	☐ 02		
☐ 01	☐ 02		
☐ 01	☐ 02		

Is Container located on an Agricultural Farm? ☐ 01 Yes ☒ 02 No

Person Filing (Signature)	Phone w/area code
X	

For Local Agency Use Only

AGENCY NAME	CITY	COUNTY

CONTACT PERSON	PHONE W/AREA CODE

INSPECTION DATE (1ST INSPECTION)	PERMIT APPROVAL DATE	PERMIT ID. NUMBER

FOR STATE USE ONLY

STATE ID. NUMBER	Accounting Number	County Number

Date Received	☐ 01	☐ 02	☐ 03

Permit Application

☒ 01 New Permit ☐ 02 Provisional Permit	☒ 03 Installed before July 1, 1984 ☐ 04 Installed after July 1, 1984	☐ 05 Renewed Permit	☐ 06 Amended Permit

I Owner

Name (Corporation, Individual or Public Agency)			
SAN LEANDRO RENTAL SERVICE, INC.			
Street Address	**City**	**State**	**ZIP**
14273 Washington Ave.	San Leandro	Ca	94578

II Facility

Facility Name	Dealer/Foreman/Supervisor	
SAN LEANDRO RENTAL SERVICE, INC.		
Street Address		**Nearest Cross Street**
14273 Washington Ave.		143 Ave
City	**County**	**ZIP**
San Leandro	Alameda	94578
Mailing Address	**City**	**State** / **ZIP**
same as above		
Phone w/area code	**Type of Business**	
415-357-5900	☐ 01 Gasoline Station ☐ 02 Other: Const. rental yard	

NUMBER OF CONTAINERS AT THIS FACILITY	Rural Areas Only:	Township	Range	Section
3				

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
Victor D. Baldi 357-5900	Victor D. Baldi 415-581-0338

COMPLETE THE FOLLOWING ON A SEPARATE FORM FOR EACH CONTAINER

IV Description

A. ☒ 01 Tank ☐ 02 Other: _____ **Container Number** (If there is no number assign one): #3

B. Manufacturer (if appropriate): _____ Year of Mfg.: _____ C. Year Installed: 1972 ☐ Unknown

D. Container Capacity: 1000 gallons ☐ Unknown E. Does the Container Store (Check One): ☐ 01 Waste ☒ 02 Product

F. Does the Container Store Motor Vehicle Fuel or Waste Oil? ☒ 01 Yes ☐ 02 No If Yes, Check appropriate box(es):
☐ 01 Unleaded ☐ 02 Regular ☐ 03 Premium ☒ 04 Diesel ☐ 05 Waste Oil ☐ 06 Other (List): _____
If you answered yes; do not complete Part VIII.

V Container Construction

A. Thickness of Primary Containment: _____ ☐ Gauge ☐ Inches ☐ cm ☒ Unknown

B. ☐ 01 Vaulted (Located in an underground Vault.) ☒ 02 Non-vaulted ☐ 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 ☐ 11 Earthen Walls
☐ 12 Unknown ☐ 13 Other: _____

Container Construction

E. ☐ 01 Rubber Lined ☐ 02 Alkyd Lining ☐ 03 Epoxy Lining ☐ 04 Phenolic Lining ☐ 05 Glass Lining ☐ 06 Clay Lining

☒ 07 Unlined ☐ 08 Unknown ☐ 09 Other: _____

F. ☐ 01 Polyethlene Wrap ☒ 02 Vinyl Wrapping ☐ 03 Cathodic Protection

☐ 04 Unknown ☐ 05 None ☐ 06 tar or asphalt ☐ 09 Other

VI Piping

A. Aboveground Piping: ☐ 01 Double-walled pipe ☐ 02 Concrete-lined trench ☒ 03 Gravity ☐ 04 Pressure ☒ 05 Suction
[(Check) appropriate box(es)] ☐ 06 Unknown ☐ 07 None

B. Underground Piping: ☐ 01 Double-walled pipe ☐ 02 Concrete-lined trench ☒ 03 Gravity ☐ 04 Pressure ☒ 05 Suction
[(Check) appropriate box(es)] ☐ 06 Unknown ☐ 07 None

VII Leak Detection

☒ 01 Visual ☒ 02 Stock Inventory ☐ 03 Tile Drain ☐ 04 Vapor Sniff Wells ☐ 05 Sensor Instrument

☐ 06 Ground Water Monitoring Wells ☐ 07 Pressure Test ☐ 08 Internal Inspection ☐ 09 None

☒ 10 Other: ANNUAL PRECISION LEAK TEST

VIII Chemical Composition of Materials *Currently* or *Previously* Stored in Underground Containers

If you checked yes to IV-F you are not required to complete this section.

currently stored	previously stored	CAS # (If known)	Chemical *Do Not Use Commercial Name* (Use additional paper for more room
☐ 01	☐ 02		
☐ 01	☐ 02		
☐ 01	☐ 02		

Is Container located on an Agricultural Farm? ☐ 01 Yes ☒ 02 No

Person Filing (Signature)	Phone w/area code
X	

For Local Agency Use Only

AGENCY NAME	CITY	COUNTY

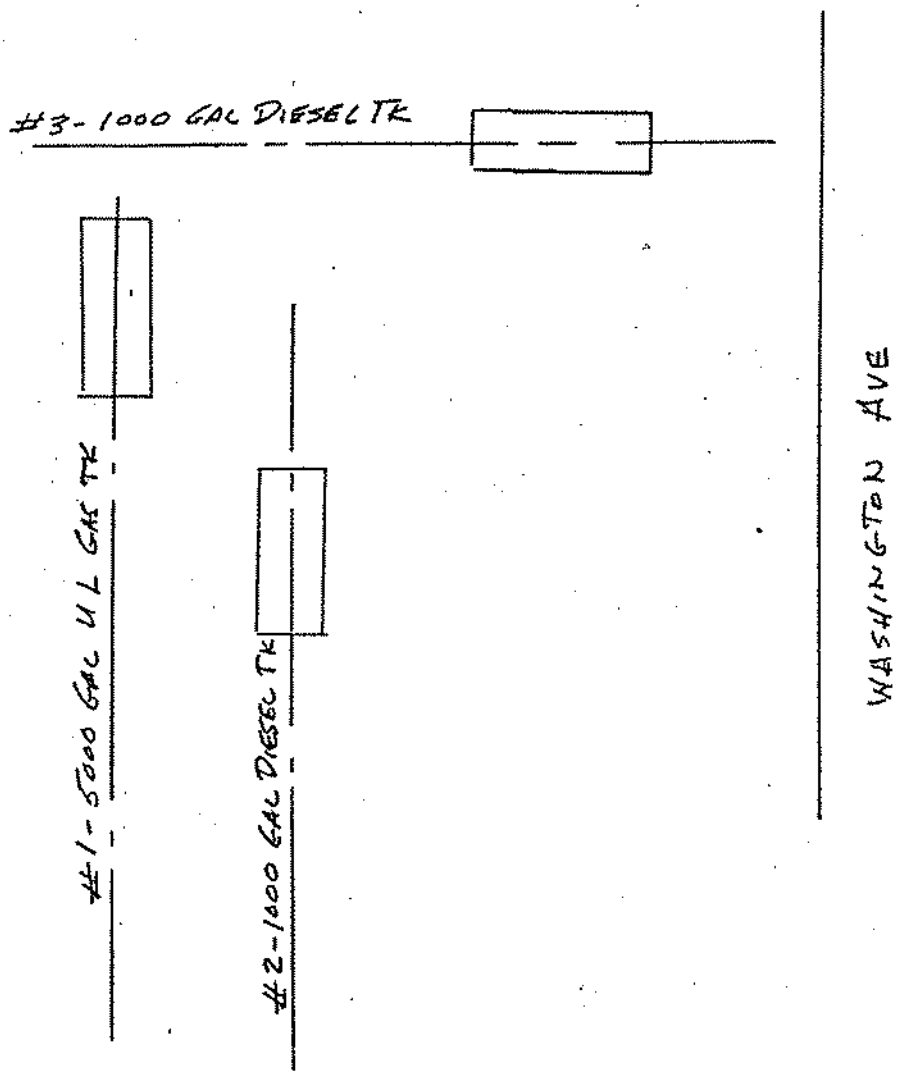
CONTACT PERSON	PHONE W/AREA CODE

INSPECTION DATE (1ST INSPECTION)	PERMIT APPROVAL DATE	PERMIT ID. NUMBER

FOR STATE USE ONLY

STATE ID. NUMBER	Accounting Number	County Number

Date Received	☐ 01	☐ 02	☐ 03



TANK ARRANEMENT
SAN LEADRO RENTAL SEVICE
1N273 WASHINGTON AVE
SAN LEANDRO, CA

HEH 4-13-87

EZY-CHEK
WORK SHEET

nk # #1 Test level + 30" Product UL GAS Capacity 5000 Chart cal. .025 + 26 = .000961 (A)

Measured gravity 59.2 Product temp. 57 F Coefficient .000610 Temp. cal. .000610 x 5000 = 3.05 (B)

level start	level end	gain + loss −	x (A)	level result	temp. start	temp. end	gain + loss −	x (B)	temp. result	final result	time
86	5	= -81	x .000961	= -.0778	66+ .284	.271	= -.013	x 3.05	= -.0396	= -.0581	15
91	30	= -61	x .000961	= -.0586	.271	.257	= -.014	x 3.05	= -.0427	= -.0459	30
92	51	= -41	x .000961	= -.0394	.257	.248	= -.009	x 3.05	= -.0274	= -.0119	45
93	52	= -41	x .000961	= -.0394	.248	.239	= -.009	x 3.05	= -.0274	= -.0119	60
97	48	= -49	x .000961	= -.0470	.239	.230	= -.009	x 3.05	= -.0274	= -.0196	75
92	52	= -40	x .000961	= -.0384	.230	.221	= -.009	x 3.05	= -.0274	= -.0110	90
		=	x	=			=	x	=	=	
		=	x	=			=	x	=	=	

Average -.0146

tion location SAN LEANDRO RENTAL SERVICE

ress 14273 WASHINGTON AVE

, State SAN LEANDRO, CA

Certified tight

Leak rate per hour -.056 GPH

Operator H E GARLAN 4-14-87

EZY-CHEK
WORK SHEET

nk # #2 Test level +40" Product DIESEL Capacity 1000 Chart cal. .025 + 87 = .000287 (A)

Measured gravity 850 Product temp. 72 F Coefficient .000454 Temp. cal. .000454 x 1000 = .454 (B)

level start	level end	gain + loss −	x (A)	level result	temp. start	temp. end	gain + loss −	x (B)	temp. result	final result	time
70	- 34	= -36	x .000287	= .0103	.476	- .438	= .038	x .454	= .0173	± .0070	15
80	- 50	= -30	x .000287	= .0080	.434	- .405	= .029	x .454	= .0131	± .0051	30
89	- 56	= -33	x .000267	= -.0088	.402	- .377	= -.025	x .454	= -.0113	= ± .0025	45
75	- 45	= -30	x .000267	= -.0080	.374	- .351	= -.023	x .454	= -.0104	= ± .0024	60
80	- 50	= -30	x .000267	= -.0080	.351	- .328	= -.023	x .454	= -.0104	= ± .0024	75
92	- 63	= -29	x .000267	= -.0077	.328	- .307	= -.021	x .454	= -.0095	= ± .0018	90
	-	=	x	=		-	=	x	=	=	
	-	=	x	=		-	=	x	=	=	

Average

tion location SAN LEANDRO RENTAL SERVICE

ress 14273 WASHINGTON AVE

, State SAN LEANDRO, CA

Certified tight H E H. 4-14-87

Leak rate per hour ± .0091 GPH

Operator H E HANLAN 4-14-87

EZY-CHEK
WORK SHEET

nk # 43 Test level +58" Product DIESEL Capacity 1000 Chart cal. .025 + 43 = .000581 (A)

Measured gravity 35.0 Product temp 72 F Coefficient .000454 Temp. cal. .000454 x 1000 = .454 (B)

level start	level end	gain + loss −	x (A)	level result	temp. start	temp. end	gain + loss −	x (B)	temp. result	final result	time
	81 − 80	= −1	x .000581	= −.0005	.417	− .418	= +.001	x .454	= +.0004	= −.0029	15
	80 − 67	= −13	x .000581	= −.0075	.418	− .419	= +.001	x .454	= +.0004	= −.0079	30
	67 − 55	= −12	x .000581	= −.0069	.419	− .419	= .000	x .454	= —	= −.0069	45
	55 − 43	= −12	x .000581	= −.0069	.419	− .418	= −.001	x .454	= −.0004	= −.0065	60
	43 − 32	= −11	x .000581	= −.0063	.418	− .416	= −.002	x .454	= −.0009	= −.0054	75
	32 − 20	= −12	x .000581	= −.0069	.416	− .415	= −.001	x .454	= −.0004	= −.0065	90
	−	=	x	=		−	=	x	=	=	
	−	=	x	=		−	=	x	=	=	

Average −.0056

ıtion location SAN LEANDRO RENTAL

dress 1477 WASHINGTON AVE

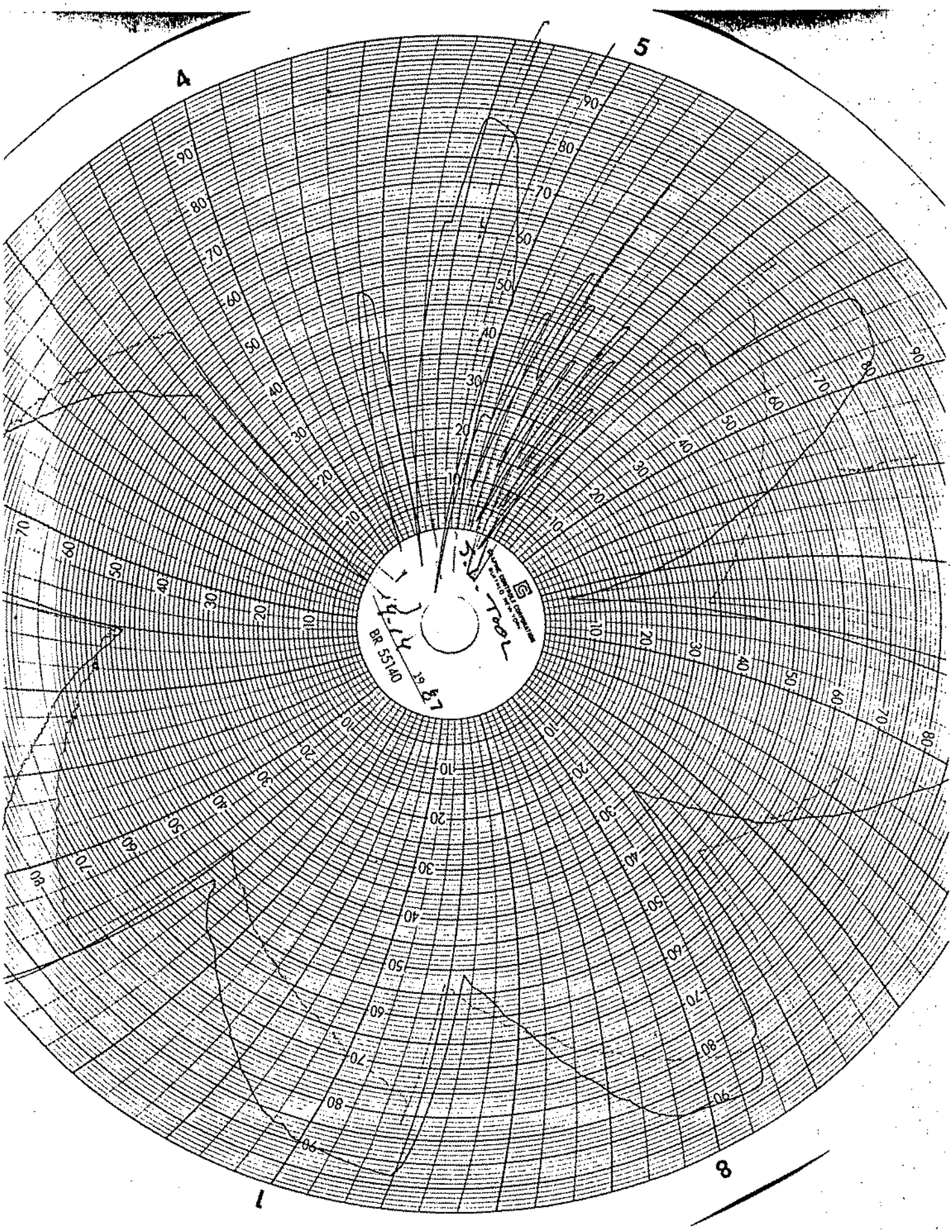
y, State SAN LEANDRO CA

Certified tight H Z Hall 4-15-87

Leak rate per hour − .022 GPH

Operator K. E. KELLEY 4-15-87

.0276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BR 55140

HOWARD E. HARLAN & ASSOCIATES, INC.
55 SAND HARBOR, ALAMEDA, CA 94501
(415) 865-3161

April 15, 1987

Mr. Victor D. Baldi
San Leandro Rental Service
14273 Washington Avenue
San Leandro, CA 94578

Dear Victor:

Here are the test results from the tanks tested on April 14 and 15. Tank identification is shown on the attached sketch.

Tank #1, the 5000 gallon U.L. gasoline tank, had a calculated leak rate of -.056 gph. This is slightly above the regulatory standards. Leaks were visible at the suction piping under the pump and at the vapor return riser. I am confident that the test results would have been within regulatory limits had these leaks not been present.

Tanks #2 and #3, the 1000 gallon diesel tanks, both produced test results within the regulatory standards. Tank #2 had a calculated leak rate of +.009 gph; Tank #3 had a calculated leak rate of -.022 gph. The diesel tanks are certified tight.

Partially completed permit applications for the diesel tanks are enclosed. Sections I, II and III remain for you to complete. Your signature is required under Section VIII.

Significant amounts of water were found in Tank #1 and #2 of 3¾ inches and one-half inch, respectively. Tank #3 only showed 1/8 inch of water. I recommend that the water be removed from Tank #1 and #2, and that measures be implemented to protect surface drainage from entering the fill risers.

Please feel free to call me if you wish to discuss details further.

Sincerely,

Howard Harlan

Howard E. Harlan, P.E.

HEH/mm
Encls.

EZY-CHEK
WORK SHEET

: # #1 Test level + 30" Product UL GAS Capacity 5000 Chart cal. .025 ÷ 26 = .000961 (A)

asured gravity 59.2 Product temp. 57 F Coeffiecient .000610 Temp. cal. .000610 x 5000 = 3.05 (B)

level start	level end	gain + loss −	x (A) x (A)	level result	temp. start	temp. end	gain + loss −	x (B) x (B)	temp. result	final result	time
86	− 5	= −81	x .000961	= −.0778	66+ .284	− .271	= −.013	x 3.05	= −.0396	= −.0381	15
91	− 30	= −61	x .000961	= −.0586	.271	− 257	= −.014	x 3.05	= −.0427	= −.0159	30
92	− 51	= −41	x .000961	= −.0394	.257	− .248	= −.009	x 3.05	= −.0274	= −.0119	45
93	− 52	= −41	x .000961	= −.0394	.248	− .239	= −.009	x 3.05	= −.0274	= −.0119	60
97	− 48	= −49	x .000961	= −.0470	.239	− .230	= −.009	x 3.05	= −.0274	= −.0196	75
92	− 52	= −40	x .000961	= −.0384	.230	− .221	= −.009	x 3.05	= −.0274	= −.0110	90
	−	=	x	=		−	=	x	=	=	
	−	=	x	=		−	=	x	=	=	

Average −.0140

on location SAN LEANDRO RENTAL SERVICE

ess 14273 WASHINGTON AVE

State SAN LEANDRO, CA

Certified tight _____

Leak rate per hour −.056 GPH

Operator H E EARLAN 4-14-87

Permit Application

☒ 01 New Permit ☐ 02 Provisional Permit	☒ 03 Installed before July 1, 1984 ☐ 04 Installed after July 1, 1984	☐ 05 Renewed Permit	☐ 06 Amended Permit

I Owner

Name (Corporation, Individual or Public Agency)			
SAN LEANDRO RENTAL SERVICE, INC.			
Street Address	**City**	**State**	**ZIP**
14273 WASHINGTON AVE	SAN LEANDRO	CA	94578

II Facility

Facility Name	Dealer/Foreman/Supervisor	
SAN LEANDRO RENTAL SERVICE, INC.		
Street Address	**Nearest Cross Street**	
14273 Washington AVe.	143 Ave	
City	**County**	**ZIP**
San Leandro	Alameda	94578
Mailing Address	**City**	**State** / **ZIP**
same as above		
Phone w/area code	**Type of Business**	
415-357-5900	☐ 01 Gasoline Station ☐ 02 Other: const. rental yard	
NUMBER OF CONTAINERS AT THIS FACILITY	**Rural Areas Only:** Township	Range / Section
3		

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
Victor D. Baldi 357-5900	Victor D. Baldi 415-581-0338

COMPLETE THE FOLLOWING ON A SEPARATE FORM FOR EACH CONTAINER

IV Description

A. ☒ 01 Tank ☐ 02 Other: _____	**Container Number** (If there is no number, assign one) 2
B. Manufacturer (if appropriate): _____ Year of Mfg.: _____	C. Year Installed: 1972 ☐ Unknown
D. Container Capacity: 1000 gallons ☐ Unknown	E. Does the Container Store (Check One): ☐ 01 Waste ☒ 02 Product

F. Does the Container Store Motor Vehicle Fuel or Waste Oil? ☒ 01 Yes ☐ 02 No If Yes, Check appropriate box(es):
☐ 01 Unleaded ☐ 02 Regular ☐ 03 Premium ☒ 04 Diesel ☐ 05 Waste Oil ☐ 06 Other (List): _____
If you answered yes; do not complete Part VIII.

V Container Construction

A. Thickness of Primary Containment: _____ ☐ Gauge ☐ Inches ☐ cm ☒ Unknown

B. ☐ 01 Vaulted (Located in an underground Vault.) ☒ 02 Non-vaulted ☐ 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 ☐ 11 Earthen Walls
☐ 12 Unknown ☐ 13 Other: _____

Container Construction

E. ☐ 01 Rubber Lined ☐ 02 Alkyd Lining ☐ 03 Epoxy Lining ☐ 04 Phenolic Lining ☐ 05 Glass Lining ☐ 06 Clay Lining

☒ 07 Unlined ☐ 08 Unknown ☐ 09 Other: _____

F. ☐ 01 Polyethlene Wrap ☒ 02 Vinyl Wrapping ☐ 03 Cathodic Protection

☐ 04 Unknown ☐ 05 None ☐ 06 tar or asphalt ☐ 09 Other-

VI Piping

A. Aboveground Piping: ☐ 01 Double-walled pipe ☐ 02 Concrete-lined trench ☒ 03 Gravity ☐ 04 Pressure ☒ 05 Suction
[(Check) appropriate box(es)] ☐ 06 Unknown ☐ 07 None

B. Underground Piping: ☐ 01 Double-walled pipe ☐ 02 Concrete-lined trench ☒ 03 Gravity ☐ 04 Pressure ☒ 05 Suction
[(Check) appropriate box(es)] ☐ 06 Unknown ☐ 07 None

VII Leak Detection

☒ 01 Visual ☒ 02 Stock Inventory ☐ 03 Tile Drain ☐ 04 Vapor Sniff Wells ☐ 05 Sensor Instrument

☐ 06 Ground Water Monitoring Wells ☐ 07 Pressure Test ☐ 08 Internal Inspection ☐ 09 None

☒ 10 Other: ANNUAL PRECISION LEAK TEST

VIII Chemical Composition of Materials *Currently* or *Previously* Stored in Underground Containers

If you checked yes to IV-F you are not required to complete this section.

currently stored	previously stored	CAS # (If known)	**Chemical** *Do Not Use Commercial Name* (Use additional paper for more room
☐ 01	☐ 02		
☐ 01	☐ 02		
☐ 01	☐ 02		

Is Container located on an Agricultural Farm? ☐ 01 Yes ☒ 02 No

Person Filing (Signature)	Phone w/area code
X	

For Local Agency Use Only

AGENCY NAME	CITY	COUNTY

CONTACT PERSON	PHONE W/AREA CODE

INSPECTION DATE (1ST INSPECTION)	PERMIT APPROVAL DATE	PERMIT ID. NUMBER

FOR STATE USE ONLY

STATE ID. NUMBER	Accounting Number	County Number

Date Received	☐ 01	☐ 02	☐ 03

Permit Application

☒ 01 New Permit ☐ 02 Provisional Permit	☒ 03 Installed before July 1, 1984 ☐ 04 Installed after July 1, 1984	☐ 05 Renewed Permit	☐ 06 Amended Permit

I Owner

Name (Corporation, Individual or Public Agency)			
SAN LEANDRO RENTAL SERVICE, INC.			
Street Address	**City**	**State**	**ZIP**
14273 Washington Ave.	San Leandro	Ca	94578

II Facility

Facility Name	Dealer/Foreman/Supervisor		
SAN LEANDRO RENTAL SERVICE, INC.			
Street Address		**Nearest Cross Street**	
14273 Washington Ave.		143 Ave	
City	**County**		**ZIP**
San Leandro	Alameda		94578
Mailing Address	**City**	**State**	**ZIP**
same as above			
Phone w/area code	**Type of Business**		
415-357-5900	☐ 01 Gasoline Station ☐ 02 Other: Const. rental yard		
NUMBER OF CONTAINERS AT THIS FACILITY	**Rural Areas Only:** Township	Range	Section
3			

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
Victor D. Baldi 357-5900	Victor D. Baldi 415-581-0338

COMPLETE THE FOLLOWING ON A SEPARATE FORM FOR EACH CONTAINER

IV Description

A. ☒ 01 Tank ☐ 02 Other: _____ **Container Number** (If there is no number, assign one): #3

B. Manufacturer (if appropriate): _____ Year of Mfg.: _____ C. Year Installed: 1972 ☐ Unknown

D. Container Capacity: 1006 gallons ☐ Unknown E. Does the Container Store (Check One): ☐ 01 Waste ☒ 02 Product

F. Does the Container Store Motor Vehicle Fuel or Waste Oil? ☒ 01 Yes ☐ 02 No If Yes, Check appropriate box(es):
☐ 01 Unleaded ☐ 02 Regular ☐ 03 Premium ☒ 04 Diesel ☐ 05 Waste Oil ☐ 06 Other (List): _____
If you answered yes; do not complete Part VIII.

V Container Construction

A. Thickness of Primary Containment: _____ ☐ Gauge ☐ Inches ☐ cm ☒ Unknown

B. ☐ 01 Vaulted (Located in an underground Vault.) ☒ 02 Non-vaulted ☐ 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 ☐ 11 Earthen Walls
☐ 12 Unknown ☐ 13 Other: _____

Container Construction

E. ☐ 01 Rubber Lined ☐ 02 Alkyd Lining ☐ 03 Epoxy Lining ☐ 04 Phenolic Lining ☐ 05 Glass Lining ☐ 06 Clay Lining
☒ 07 Unlined ☐ 08 Unknown ☐ 09 Other: _____

F. ☐ 01 Polyethlene Wrap ☒ 02 Vinyl Wrapping ☐ 03 Cathodic Protection
☐ 04 Unknown ☐ 05 None ☐ 06 tar or asphalt ☐ 09 Other

VI Piping

A. Aboveground Piping: ☐ 01 Double-walled pipe ☐ 02 Concrete-lined trench ☒ 03 Gravity ☐ 04 Pressure ☒ 05 Suction
[(Check) appropriate box(es)] ☐ 06 Unknown ☐ 07 None

B. Underground Piping: ☐ 01 Double-walled pipe ☐ 02 Concrete-lined trench ☒ 03 Gravity ☐ 04 Pressure ☒ 05 Suction
[(Check) appropriate box(es)] ☐ 06 Unknown ☐ 07 None

VII Leak Detection

☒ 01 Visual ☒ 02 Stock Inventory ☐ 03 Tile Drain ☐ 04 Vapor Sniff Wells ☐ 05 Sensor Instrument
☐ 06 Ground Water Monitoring Wells ☐ 07 Pressure Test ☐ 08 Internal Inspection ☐ 09 None
☒ 10 Other: ANNUAL PRECISION LEAK TEST

VIII Chemical Composition of Materials *Currently* or *Previously* Stored in Underground Containers

If you checked yes to IV-F you are not required to complete this section.

currently stored	previously stored	CAS # (If known)	Chemical *Do Not Use Commercial Name* (Use additional paper for more room
☐ 01	☐ 02		
☐ 01	☐ 02		
☐ 01	☐ 02		

Is Container located on an Agricultural Farm? ☐ 01 Yes ☒ 02 No

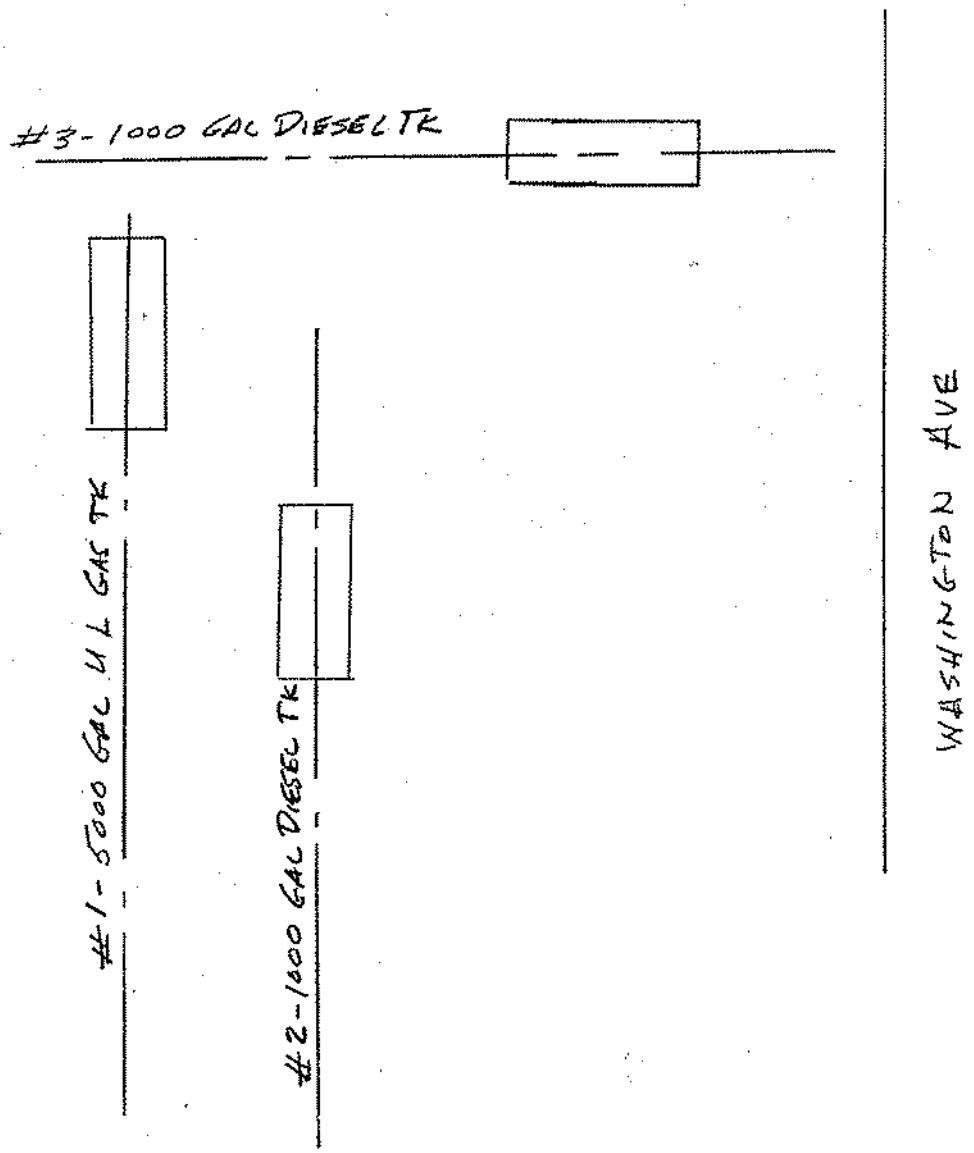
Person Filing (Signature)	Phone w/area code
X	

For Local Agency Use Only

AGENCY NAME	CITY	COUNTY
CONTACT PERSON	PHONE W/AREA CODE	
INSPECTION DATE (1ST INSPECTION)	PERMIT APPROVAL DATE	PERMIT ID. NUMBER

FOR STATE USE ONLY

STATE ID. NUMBER	Accounting Number	County Number
Date Received	☐ 01	☐ 02	☐ 03



TANK ARRANEMENT
SAN LEADRO RENTAL SEVICE
14273 WASHINGTON AVE
SAN LEANDRO, CA

HEH 4-15-87

EZY-CHEK
WORK SHEET

ank # #2 Test level +40" Product DIESEL Capacity 1000 Chart cal. .025 ÷ 87 = .000287 (A)

Measured gravity 850 Product temp. 72 F Coeffiecient .000454 Temp. cal. .000454 x 1000 = .454 (B)

st	vel art	level end	gain + loss −	x (A) x (A)	level result	temp. start	temp. end	gain + loss −	x (B) x (B)	temp. result	final result	tim
	70	− 34	= −36	x .000287	= .0103	65 .476	− .438	= .038	x .454	= .0173	± .0070	12 /s
	80	− 50	= −30	x .000267	= .0080	.434	− .405	= .029	x .454	= .0131	± .0051	3c
	89	− 56	= −33	x .000267	= −.0088	.402	− .377	= −.025	x .454	= −.0113	= +.0025	4s
	75	− 45	= −30	x .000267	= −.0080	.374	− .351	= −.023	x .454	= −.0104	= +.0024	6c
	80	− 50	= −30	x .000267	= −.0080	.351	− .328	= −.023	x .454	= −.0104	= +.0024	75
	92	− 63	= −29	x .000267	= −.0077	.328	− .307	= −.021	x .454	= −.0095	= +.0018	9c
		−	=	x	=		−	=	x	=	=	
		−	=	x	=		−	=	x	=	=	

Average _____

ation location SAN LEANDRO RENTAL SERVICE

dress 14273 WASHINGTON AVE

y, State SAN LEANDRO, CA

Certified tight H E Hallan 4-14-87

Leak rate per hour ± .0091 GPH

Operator H E HALLAN 4-14-87

EZY-CHEK
WORK SHEET

ank # #3 Test level +58" Product DIESEL Capacity 1000 Chart cal. .025 + 43 = .000581 (A)

Measured gravity 850 Product temp. 72 F Coeffiecient .000454 Temp. cal. .000454 x 1000 = .454 (B)

st	vel art	level end	gain + loss −	x (A) x (A)	level result	temp. start	temp. end	gain + loss −	x (B) x (B)	temp. result	final result	tim
		81 − 80	= -1	x .000581	= -.0005	.417	− .418	= +.001	x .454	=+.0004	=-.0009	15
		80 − 67	= -13	x .000581	= -.0075	.418	− .419	= +.001	x .454	=+.0004	=-.0079	30
		67 − 55	= -12	x .000581	= -.0069	.419	− .419	= .000	x .454	= —	=-.0069	45
		55 − 43	= -12	x .000581	= -.0069	.419	− .418	= -.001	x .454	= -.0004	=-.0065	60
		43 − 32	= -11	x .000581	= -.0063	.418	− .416	= -.002	x .454	= -.0009	=-.0054	7
		32 − 20	= -12	x .000581	= -.0069	.416	− .415	= -.001	x .454	= -.0004	=-.0065	9
		−	=	x	=		−	=	x	=	=	
		−	=	x	=		−	=	x	=	=	

Average -.00656

ation location SAN LEANDRO RENTAL

dress 14273 WASHINGTON AVE

y, State SAN LEANDRO, CA

Certified tight H. E. Hall 4-15-87

Leak rate per hour -.022 GPH

Operator H. E. HALL 4-15-87

.0276

EZY-CHEK
WORK SHEET

nk # #1 Test level + 30" Product U/L GAS Capacity 5000 Chart cal. .625 + 26 = .000961 (A)

Measured gravity 59.2 Product temp. 57 F Coefficient .000610 Temp. cal. .000610 x 5000 = 3.05 (B)

t el art	level end	gain + loss −	x (A) x (A)	level result	temp. start	temp. end	gain + loss −	x (B) x (B)	temp. result	final result	tim
	86 − 5	= -81	x .000961	= -.0778	66+ .284	− .271	= -.013	x 3.05	= -.0396	= -.0381	15
	91 − 30	= -61	x .000961	= -.0586	.271	− .257	= -.014	x 3.05	= -.0427	= -.0159	30
	92 − 51	= -41	x .000961	= -.0394	.257	− .248	= -.009	x 3.05	= -.0274	= -.0119	45
	93 − 52	= -41	x .000961	= -.0394	.248	− .239	= -.009	x 3.05	= -.0274	= -.0119	60
	97 − 48	= -49	x .000961	= -.0470	.239	− .230	= -.009	x 3.05	= -.0274	= -.0196	75
	92 − 52	= -40	x .000961	= -.0384	.230	− .221	= -.009	x 3.05	= -.0274	= -.0110	90
	−	=	x	=		−	=	x	=	=	
	−	=	x	=		−	=	x	=	=	

Average -.0140

tion location SAN LEANDRO RENTAL SERVICE

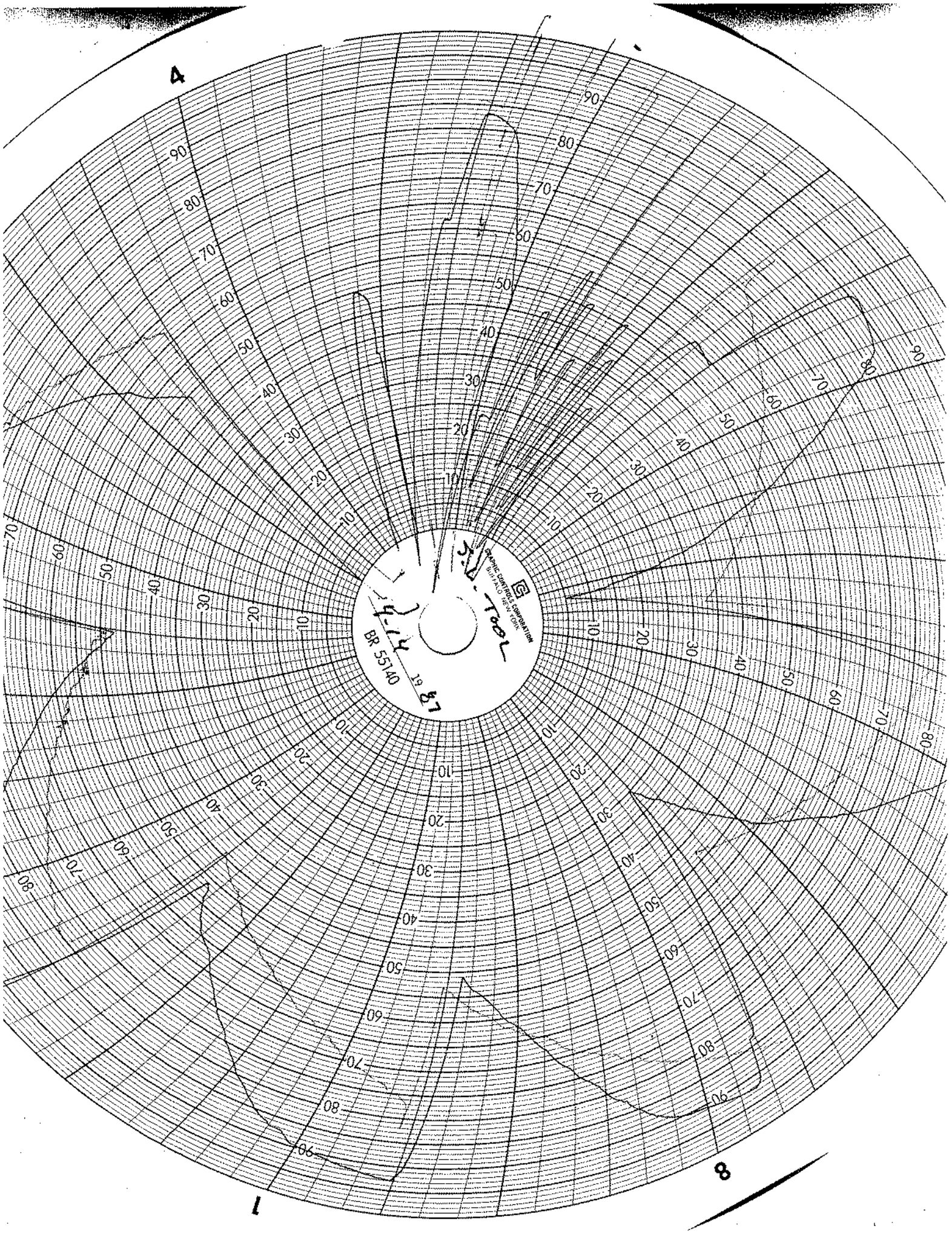
dress 14273 WASHINGTON AVE

y, State SAN LEANDRO, CA

Certified tight _____

Leak rate per hour -.056 GPH

Operator H E HARLAN 4-14-87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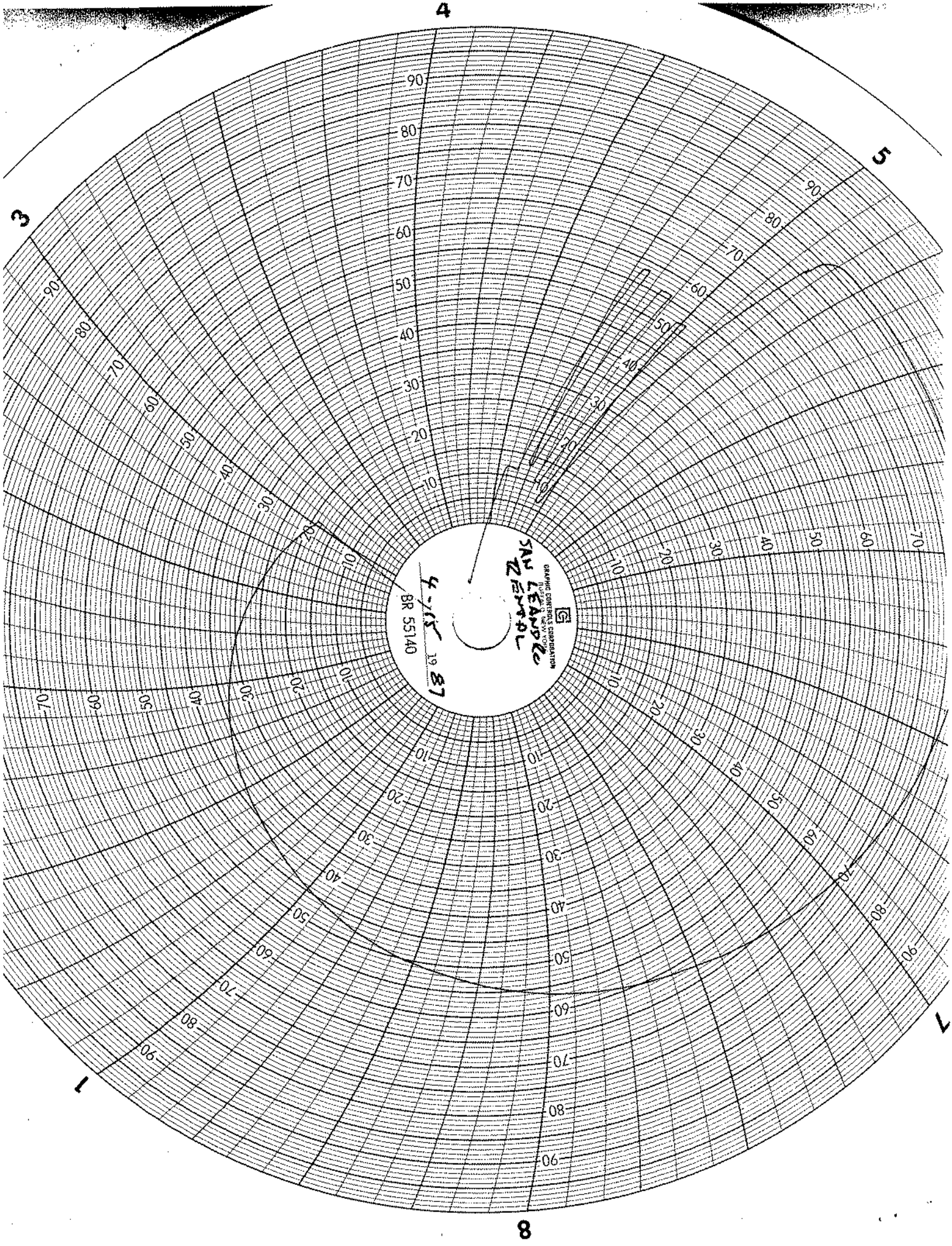
GRAPHIC CONTROLS CORPORATION
BUFFALO NEW YORK
BR 55140
19 87
TOOL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GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
BR 55140
19 87

Reviewed By KB

Approval Date 4-1

Rejection Date _____

San Leandro Fire Department
Hazardous Materials Division
835 East 14th Street
San Leandro, CA 94577
(415) 577-3331

Rev 4/91

Date Received 3/31/92

Fees Paid 275 CK

UNDERGROUND STORAGE TANK CLOSURE PLAN/PERMIT

1. Facility Name: SAN LEANDRO RENTAL Address: 14273 WASHINGTON AVENUE

   Contact Person: _____ Phone No.: 357-5900

   Generator's U.S. EPA Number: CAL 000060805

2. Contractor: HILLVIEW ENGINEERING License Type & No.: GENERAL 585828

   Address: 620 MARINA BOULEVARD, SAN LEANDRO, CA 94577

   Contact Person: JACK QUARLE' Phone No.: 895-1474

3. Sampling to be performed by: J. QUARLE' & ASSOC. INC. Phone No.: 895-1474

4. Laboratory services to be provided by: MCCAMPBELL ANALYTICAL

   DOHS Certificate No.: #1644 Phone No.: 798-1620

5. Tank Hauler: TRIDENT TRUCKLINES, INC. EPA ID No.: 2773

   Address: P.O. BOX B, GUSTINE, CA 95322 Phone No.: 209-854-3700

   Destination of Tank(s): ERICKSON INCORPORATED

6. Method of inerting tank(s): DRY ICE

7. Type of explosimeter or combustible gas meter to be provided: GAS TECH

8. Tanks to be removed:

	Size	Content	Material of Construction	Age	Sample Analysis Method
Tank 1	5,000	GAS	STEEL		TPH-G-D-BTEX
Tank 2	1,000	DIESEL	STEEL		TPH-G-D-BTEX
Tank 3					
Tank 4					
Piping					

I acknowledge receipt and agree to comply with the San Leandro Fire Department Underground Storage Tank Closure Requirements. I declare under penalty of perjury that the aforementioned information is true and correct, to the best of my knowledge.

Company Name: J. QUARLE' & ASSOC. INC. Address: 620 MARINA BOULEVARD, SAN LEANDRO

Applicant's Signature Jack Quarle Date 3-31-92

Number of Tanks Removed 2 Inspector Karl Buscke Date 4/7/92

PERMIT TO OPERATE
UNDERGROUND STORAGE TANK
SAN LEANDRO FIRE DEPARTMENT

PERMIT NO. 507

FACILITY NAME San Leandro Rental Service, Inc.

ADDRESS 14273 Washington AVe.

ISSUED 2/4/91

EXPIRES JULY 1, 1995

	TANK 1	TANK 2	TANK 3	TANK 4	TANK 5	TANK 6	TANK 7	TANK 8	TANK 9	TANK 10
CAPACITY (GAL)	5,000	1,000								
CONTENT	UL	D								
DATE INSTALLED	Unk	1972								
MONITORING OPT	4	4								

POST IN A CONSPICUOUS LOCATION

ISSUED BY Michael Roberts
Hazardous Materials Coordinator

SAN LEANDRO FIRE DEPARTMENT

PERMIT TO OPERATE UNDERGROUND STORAGE TANK

DATE: 3/21/90

NAME OF FACILITY
WHERE TANKS ARE LOCATED: San Leandro Rental

ADDRESS: 14273 Washington Ave.

NUMBER OF TANKS AT THIS LOCATION: # 3

FEES PAID TO CITY: $320.

FEES PAID TO STATE: _____

TANK #1: # 1 5000 Gallon Unleaded Gas tank.

TANK #2: # 2 1000 Gallon Diesel Gas tanks.

TANK #3: _____

(ADDITIONAL TANKS WILL BE LISTED ON REAR)

PERMISSION IS HEREBY GRANTED TO OPERATE THE UNDERGROUND STORAGE TANK FACILITY DESCRIBED ABOVE FOR A PERIOD OF ONE YEAR FROM THE DATE INDICATED. THIS PERMIT IS CONTINGENT UPON THE FACILITY, ITS OPERATORS AND ITS OWNERS COMPLYING WITH ALL APPLICABLE LAWS AND REGULATIONS AND MAY BE REVOKED AT ANYTIME.

ALL CHANGES IN UNDERGROUND STORAGE TANK INFORMATION MUST BE REPORTED TO THE SAN LEANDRO FIRE DEPARTMENT WITHIN 15 DAYS AND MAY REQUIRE COMPLETION OF ADDITIONAL FORMS AND PAYMENT OF ADDITIONAL FEES.

RENEWAL OF THIS PERMIT IS THE RESPONSIBILITY OF THE FACILITY'S OPERATORS. OPERATION OF AN UNDERGROUND STORAGE TANK WITHOUT A VALID PERMIT IS A VIOLATION OF BOTH STATE AND LOCAL ORDINANCE.

A COPY OF THIS PERMIT MUST BE KEPT ON FILE AT THE FACILITY

SIGNATURE: Ron Figuire

(NOT VALID WITHOUT AUTHORIZED SIGNATURE)

TITLE: Fire Inspector

APPLICATION FOR PERMIT TO OPERATE
UNDERGROUND STORAGE TANK

TYPE OF PERMIT: NEW X RENEWAL _____ CHANGE OF INFORMATION _____

FACILITY NAME: SAN LEANDRO EQUIPMENT RENTAL, INC

ADDRESS: 14273 WASHINGTON AVE. SAN LEANDRO, CA 94578

KEY CONTACT: Victor Baldi Sr TELEPHONE: 357-5700

PROPERTY OWNER: SAN LEANDRO EQUIPMENT RENTAL, INC

ADDRESS: 14273 WASHINGTON AVE. SAN LEANDRO, CA 94578

TANK OWNER: SAN LEANDRO EQUIPMENT RENTAL, INC

ADDRESS: 14273 WASHINGTON AVE. SAN LEANDRO, CA 94578

LEGAL NOTIFICATIONS AND BILLING SHOULD BE DIRECTED TO:

FACILITY / PROPERTY OWNER _____ TANK OWNER _____

TANK SYSTEM INFORMATION

NUMBER OF TANKS: 3 MONITORING OPTIONS: #5

PIPING SYSTEM DESCRIPTION:

SUCTION: X PRESSURE: _____ LINE LEAK DETECTOR?(Y/N) _____

INDICATE ANY CHANGES IN TANK CONTENTS SINCE LAST PERMIT RENEWAL:

Inspection was conducted on 3/21/

****

ANY CHANGE IN THE INFORMATION REGARDING AN UNDERGROUND STORAGE TANK MUST BE REPORTED TO THE FIRE DEPARTMENT WITHIN 15 DAYS. CHANGES MAY REQUIRE THE COMPLETION OF ADDITIONAL FORMS AND PAYMENT OF ADDITIONAL FEES.

****

NAME OF APPLICANT: Victor Baldi Sr TITLE: Owner

SIGNATURE: [signature]

1. 5,000 Gal
2 1,500 Diesel

CITY OF SAN LEANDRO

835 EAST 14th STREET • SAN LEANDRO, CALIFORNIA 94577

RECEIPT NO. 24924

ACCOUNT NO. _____

Date 3/14 19 20

Received From San Leandro Rental $ 320.00

Address 14273 Washington Ave. San Leandro CA

For (Fees for Operating Permit UGST)
for the above site

By Jamie McDot

NOT VALID UNTIL RECEIPTED BY CASHIER

FORM 095

MOORE BUSINESS FORMS, INC.-M

CITY OF SAN LEANDRO

835 EAST 14th STREET SAN LEANDRO, CALIFORNIA 94577

RECEIPT NO. 19826

ACCOUNT NO. _____

THREE TANKS

CITY PERMIT
STATE PERMIT

Date SEPTEMBER 28, 1988

Received From SAN LEANDRO RENTAL SERVICE $ 308.00

Address 14273 WASHINGTON AVE SAN LEANDRO, CA 94578

For State regulations and City Permit to operate
Three (3) Underground Fuel Storage Tanks.

Check # 3047 Dated 9/22/88

By _____

NOT VALID UNTIL RECEIPTED BY CASHIER

FORM 095

MOORE BUSINESS FORMS, INC.

WELLS FARGO BANK
SAN LEANDRO OFFICE
SAN LEANDRO, CALIF. 94578

11-24/001
1210(8)

San Leandro Rental Service
14273 WASHINGTON AVE. • SAN LEANDRO, CALIFORNIA 94578

DATE	CHECK NUMBER
9-22-88	3047

003047

PAY Exactly 308. Dollars and 00 Cents

$ 308.00

TO THE ORDER OF City of San Leandro

COPY

⑈003047⑈ ⑆121000248⑆0121 020374⑈

HOWARD E. HARLAN & ASSOCIATES, INC.
167 WAKEFIELD DRIVE, VACAVILLE, CA 95687
(707) 448-4834 (415) 456-9748

Copy fwd to Regional Water 10/6/88

Leak Report Filed 9/14/88

September 27, 1988

Mr. Victor Baldi, Sr.
San Leandro Rental Service
14273 Washington Avenue
San Leandro, CA 94578

REPORT

Dear Mr. Baldi:

Enclosed are the test results from the precision tests we conducted on your underground tanks this past weekend. Identification of the tanks is shown on the enclosed sketch.

Tank #1, your 5000 gallon unleaded gasoline tank, shows a calculated leak rate of 0.047 gallons per hour, which is within the rate allowed by regulatory standards. This tank is certified tight.

Tank #2, the 1000-gallon diesel tank located at the pump island, produced test results showing a leak rate of 0.020 gallons per hour, which is well within regulatory limits. This tank is certified tight.

Tank #3, the 1000-gallon diesel tank located at the front gate to your yard, shows a calculated leak rate of 0.035 gallons per hour. This rate is well within regulatory limits and the tank is certified tight.

A minimal amount of water (1/2 inch) was found in Tank #1. We recommend that you take steps to keep surface water from entering the fill riser.

This report and the enclosed copies of our data sheets and level recorder charts should be all that you need to obtain renewed permits for your tanks.

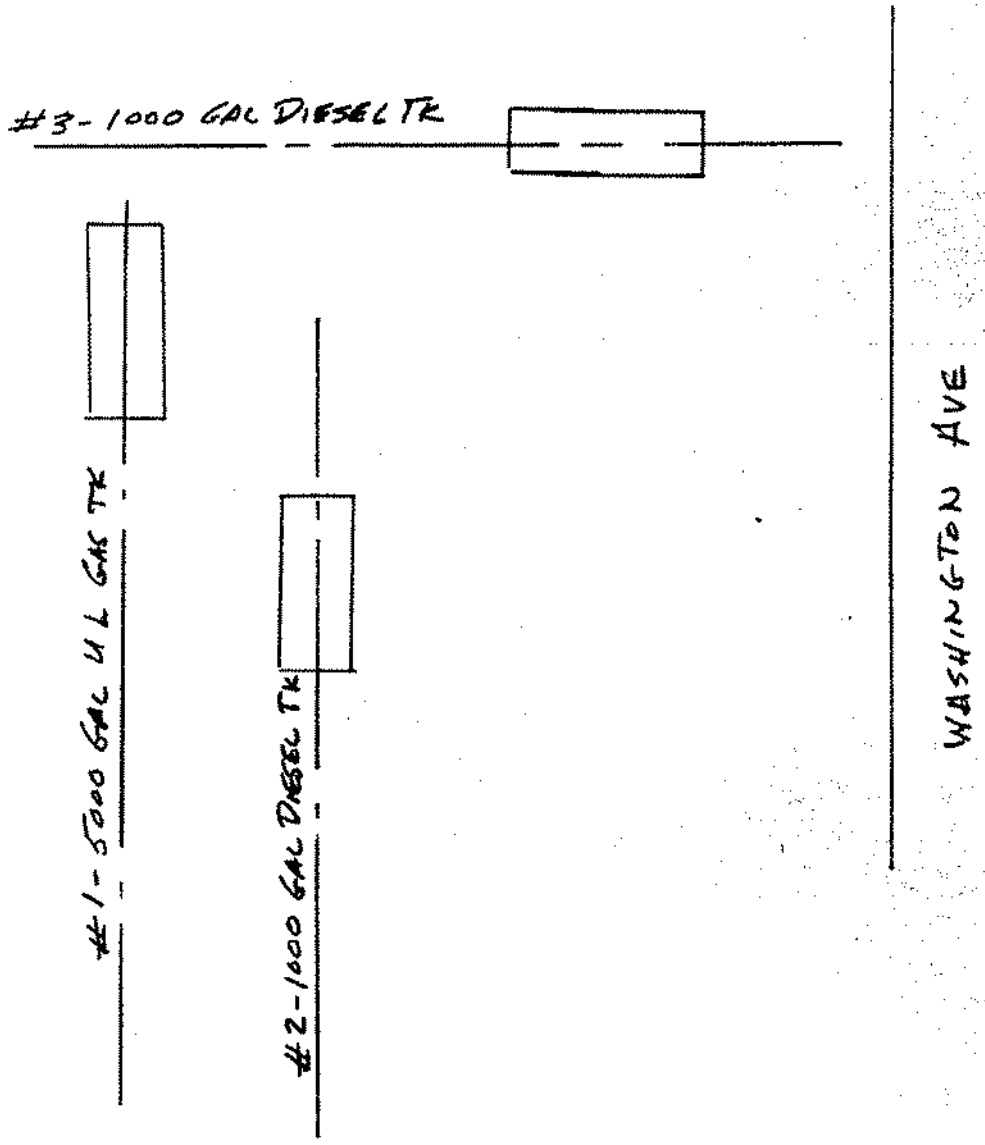
If you have any questions, please call us at your convenience.

Sincerely,

Jack de Celle

Jack de Celle

JdC:ag
encl.



TANK ARRANEMENT

SAN LEADRO RENTAL SEVICE

14273 WASHINGTON AVE

SAN LEANDRO, CA

HEH 4-15-87

UNDERGROUND TANK
PRECISION LEAK TEST
DATA SHEET

FACILITY SAN LEANDRO TRAILER RENTAL OPERATOR VIC BALDI
STREET 14273 WASHINGTON BLVD TELEPHONE 352-5700
CITY SAN LEANDRO, CA 94578 INITIAL TEST INITIAL 1988
DATE 9-25-88 AMBIENT TEMP 65° F START 10:38 COMPLETION 12:38
TANK NO. #1 STARTING TEST LEVEL +38" TEST METHOD HORNER
CAPACITY 500 MATERIAL UL GAS WATER 1/2" INITIAL L.L. -1"
TANK DIMENSIONS: BOTTOM 122 API GRAVITY 57.7 @ 62 F
TOP 27 COEFFICIENT .000581
DIAMETER 95 TEMP CORRECTION FACTOR 2.905 gal/°F
DISPLACEMENT .025 CHART CALIBRATION 34 CALIBRATION FACTOR .000735 gal/LINE

TIME MINUTES	LEVEL START	LEVEL END	LEVEL CHANGE	TEMP START	TEMP END	DENSITY EFFECT	NET RESULT
15	93	16	-.0565	73.914	.312	-.0058	-.0506
30	89	40	-.0360	.312	.315	+.0087	-.0447
45	86	58	-.0264	.315	.313	-.0058	-.0205
60	85	53	-.0235	.313	.315	+.0058	-.0293
75	80	53	-.0198	.315	.312	-.0087	-.0110
90	96	76	-.0147	.312	.311	-.0029	-.0118
105	76	53	-.0169	.311	.310	-.0029	-.0140
120	82	60	-.0167	.310	.308	-.0058	-.0109

THIS TEST AND THESE CALCULATIONS FULLY COMPLY WITH NFPA 329 AND CALIFORNIA REGULATIONS. HOWEVER, THESE CALCULATIONS ONLY REPRESENT DATA CORRELATION AND THE ACTUAL LEAK RATE MAY DIFFER SIGNIFICANTLY DUE TO VARIABLES BEYOND THE TESTER'S CONTROL.

CALCULATED LEAK RATE -.047 GPH CERTIFIED CORRECT H E Harlan 9/25/88

HOWARD E. HARLAN & ASSOCIATES, INC.

UNDERGROUND TANK
PRECISION LEAK TEST
DATA SHEET

FACILITY SAN LEANDRO TOOL RENTAL OPERATOR VIC BALOI
STREET 14273 WASHINGTON BLVD TELEPHONE 357-5900
CITY SAN LEANDRO, CA 94578 INITIAL TEST INITIAL 1988
DATE 9-25-88 AMBIENT TEMP 70°F START 12:46 COMPLETION 14:46
TANK NO. 2 STARTING TEST LEVEL +49" TEST METHOD HOOVER
CAPACITY 1000 MATERIAL DIESEL WATER NONE INITIAL L.L. -7"
TANK DIMENSIONS: BOTTOM 126" API GRAVITY 32.8 @ 66 F
TOP 80" COEFFICIENT .000446
DIAMETER 46" TEMP CORRECTION FACTOR .446 gal/°F
DISPLACEMENT .025 CHART CALIBRATION 47 CALIBRATION FACTOR .000531

TIME MINUTES	LEVEL START	LEVEL END	LEVEL CHANGE	TEMP START	TEMP END	DENSITY EFFECT	NET RESULT
15	78	71	-.0037	70.779	.774	-.0022	-.0015
30	71	65	-.0031	.774	.765	-.0040	+.0009
45	65	59	-.0031	.765	.758	-.0031	.0000
60	59	54	-.0026	.758	.775	+.0075	-.0161
75	54	50	-.0021	.775	.778	+.0013	-.0034
90	50	43	-.0037	.778	.784	+.0026	-.0063
105	43	34	-.0047	.784	.792	+.0035	-.0082
120	34	32	-.0010	.792	.795	+.0019	-.0029

THIS TEST AND THESE CALCULATIONS FULLY COMPLY WITH NFPA 329 AND CALIFORNIA REGULATIONS. HOWEVER, THESE CALCULATIONS ONLY REPRESENT DATA CORRELATION AND THE ACTUAL LEAK RATE MAY DIFFER SIGNIFICANTLY DUE TO VARIABLES BEYOND THE TESTER'S CONTROL.

CALCULATED LEAK RATE -.020 GPH CERTIFIED CORRECT H E Harlan 9-25-88

HOWARD E. HARLAN & ASSOCIATES, INC.

UNDERGROUND TANK
PRECISION LEAK TEST
DATA SHEET

FACILITY SAN LEANDRO TOOL RENTAL OPERATOR VIC BALDI
STREET 14279 WASHINGTON BLVD TELEPHONE 357-5900
CITY SAN LEANDRO, CA 94578 INITIAL TEST INITIAL 1988
DATE 9-26-88 AMBIENT TEMP 72 F START 09:59 COMPLETION 11:52
TANK NO. #3 STARTING TEST LEVEL + 46" TEST METHOD HORNER
CAPACITY 1000 MATERIAL DIESEL WATER NONE INITIAL L.L. -1"
TANK DIMENSIONS: BOTTOM 75" API GRAVITY 32.8 @ 66 F
TOP 30" COEFFICIENT .000446
DIAMETER 45" TEMP CORRECTION FACTOR .445 gal/°F
DISPLACEMENT .025 CHART CALIBRATION 47 CALIBRATION FACTOR .000531 gal/in

TIME MINUTES	LEVEL START	LEVEL END	LEVEL CHANGE	TEMP START	TEMP END	DENSITY EFFECT	NET RESULT
15	83	71	-.0063	74.444	.468	+.0187	-.0170
30	71	60	-.0058	.468	.494	+.0115	-.0173
45	60	51	-.0047	.494	.505	+.0049	-.0096
60	51	41	-.0053	.505	.512	+.0031	-.0084
75	83	73	-.0053	.512	.520	+.0035	-.0088
90	73	63	-.0053	.520	.526	+.0026	-.0079
105	63	51	-.0063	.526	.533	+.0031	-.0094
120	51	46	-.0058	.533	.540	+.0031	-.0089

THIS TEST AND THESE CALCULATIONS FULLY COMPLY WITH NFPA 329 AND CALIFORNIA REGULATIONS. HOWEVER, THESE CALCULATIONS ONLY REPRESENT DATA CORRELATION AND THE ACTUAL LEAK RATE MAY DIFFER SIGNIFICANTLY DUE TO VARIABLES BEYOND THE TESTER'S CONTROL.

CALCULATED LEAK RATE -.035 GPH CERTIFIED CORRECT H E Harlan 9-26-88

HOWARD E. HARLAN & ASSOCIATES, INC.

City of San Leandro
Civic Center, 835 E. 14th Street
San Leandro, California 94577

April 16, 1997

Mr. Victor Baldi
San Leandro Rentals
14273 Washington Avenue
San Leandro, CA 94577

Dear Mr. Baldi:

Approval of Workplan for Soil and Groundwater Investigation at 14273 Washington

The Hazardous Materials Division has reviewed ALLCAL's above referenced workplan, dated April 3, 1997. The workplan is approved subject to the following condition:

1. That this office be notified at least 48 hours prior to the start of field work.

The City of San Leandro will oversee all remedial activities at your site. A check for $300 must be submitted to this office to pay for staff time associated with review of reports and oversight of this project. The deposit will be placed into an account from which money will be drawn at the rate of $60 per hour for time spent on this project. At the end of this project all unused funds will be returned to you.

Our goal is to assist you in quickly and efficiently investigating your site and taking you through the process of obtaining sign-off from the state. At the completion of this project, this office will prepare a report to the Regional Water Quality Control Board petitioning that your site be issued case closure. Upon approval, the state will issue a case closure letter to you stating that no further work will be required at the site.

If you have any questions, please call me at (510) 577-3331.

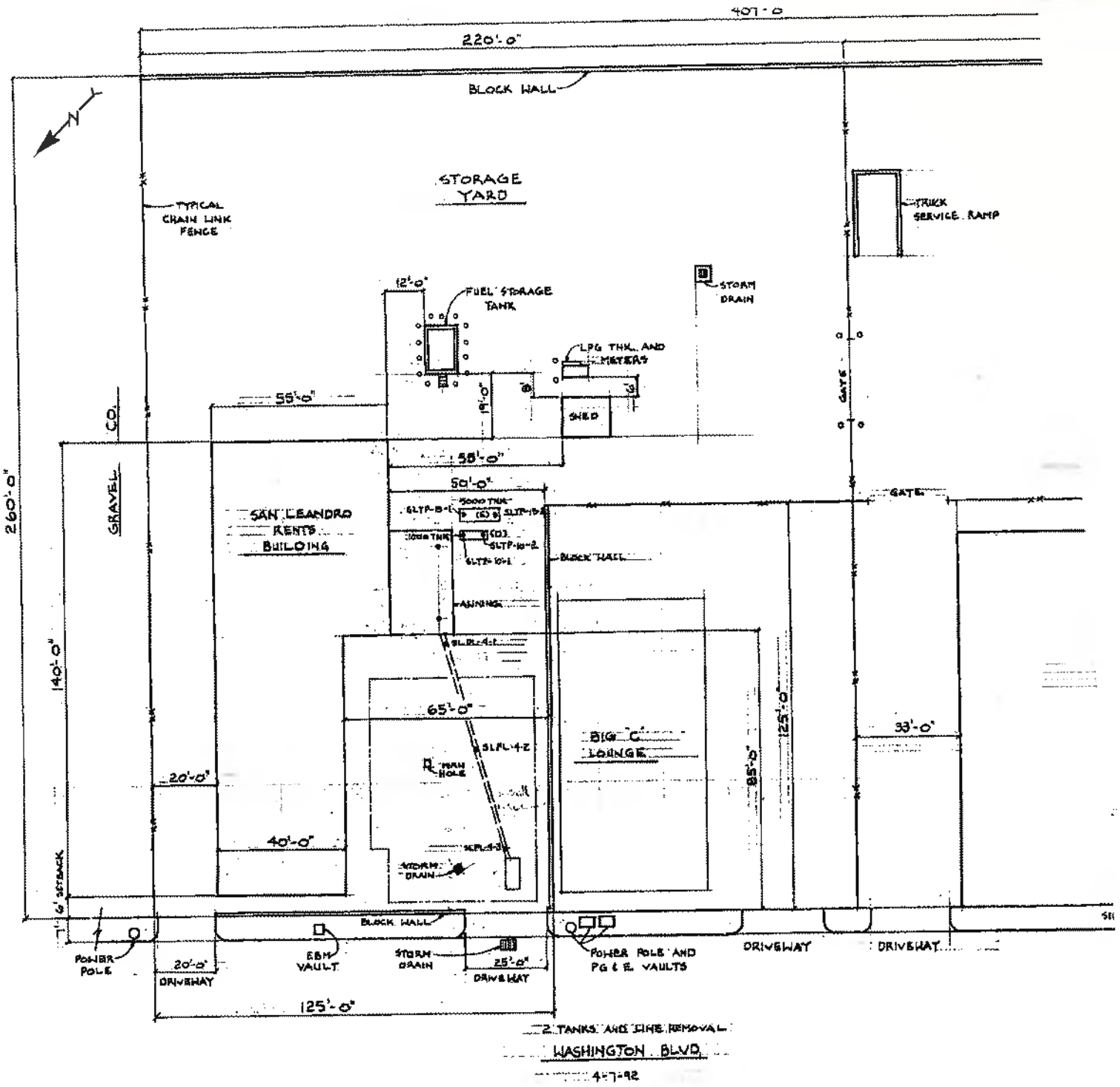
Sincerely,

Michael Bakaldin
Hazardous Materials Coordinator

cc: Kevin Graves, SFBRWQCB
John Mrakovich, ALLCAL

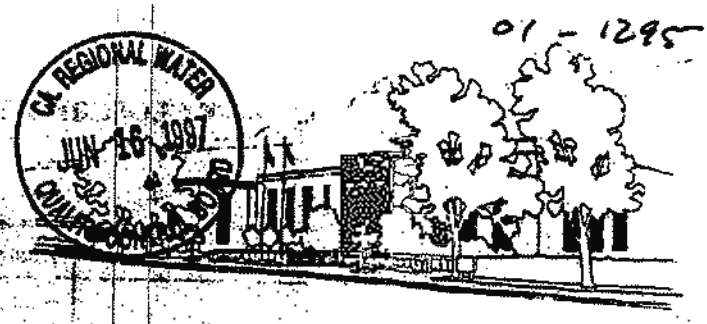
Ellen M. Corbett, Mayor

City Council:
Joanne M. Lothrop; Gordon A. Galvan; Julian P. Polvorosa; Bob Glaze; Shelia Young; Garry A. Loeffler;


407'-0"
220'-0"
BLOCK WALL
N
STORAGE YARD
TYPICAL CHAIN LINK FENCE
TRUCK SERVICE RAMP
12'-0"
FUEL STORAGE TANK
STORM DRAIN
LPG TNK. AND METERS
55'-0"
19'-0"
8'
SHED
GATE
CO.
55'-0"
50'-0"
GRAVEL
SAN LEANDRO RENTS BUILDING
GATE
260'-0"
BLOCK WALL
AWNING
140'-0"
65'-0"
SLFL-4-2
BIG "C" LOUNGE
125'-0"
33'-0"
MAN HOLE
20'-0"
40'-0"
85'-0"
AREA DRAIN
1'-6" SETBACK
BLOCK WALL
POWER POLE
20'-0" DRIVEWAY
EBM VAULT
STORM DRAIN
25'-0" DRIVEWAY
POWER POLE AND PG & E. VAULTS
DRIVEWAY
DRIVEWAY
125'-0"
2 TANKS AND LINE REMOVAL
WASHINGTON BLVD.
4-7-92

01 - 1295

City of San Leandro
Civic Center, 835 E. 14th Street
San Leandro, California 94577



June 11, 1997

Mr. Kevin Graves
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

Dear Mr. Graves:

Request for Case Closure at 14273 Washington, San Leandro, CA

This is a request for case closure for San Leandro Equipment Rental Service at 14273 Washington Avenue. The case closure is required based on the presence of the site in the Regional Board's leaking underground storage tank database.

Attached is a site closure summary which summarizes the underground storage tank removal, soil remediation, and soil and groundwater investigation activities at the site. Based on the results of the soil and groundwater investigation, the City of San Leandro recommends that no further action be required at 14273 Washington and that the Regional Board formally close this case with a case closure letter.

If you have any questions, please call me at (510) 577-3331.

Sincerely,

Michael Bakaldin
Hazardous Materials Coordinator

Attachment

cc: Victor Baldi, San Leandro Equipment Rental Service

Ellen M. Corbett, Mayor

City Council: Gordon A. Galvan; Bob Glaze; Garry A. Loeffler; Joanne M. Lothrop; Julian P. Polvorosa; Shelia Young;

SITE CLOSURE SUMMARY

I. AGENCY INFORMATION

Date: June 11, 1997

Agency Name: City of San Leandro	Address: 835 East 14th Street
City/State/Zip: San Leandro, CA	Phone: (510) 577-3331
Responsible Staff Person: Michael Bakaldin	Title: Hazardous Materials Coordinator

II. SITE INFORMATION

Site Facility Name: San Leandro Rental		
Site Facility Address: 14273 Washington		
RB LUSTIS Case No.: 01-1295	Local or LOP Case No.:	Priority:
URF Filing Date:	SWEEPS No.:	
Responsible Parties (include addresses and phone numbers)		
Mr. Victor Baldi, San Leandro Equipment Rental Service, Inc., 14273 Washington Ave., San Leandro, CA 94578		

Tank No.	Size in Gallons	Contents	Closed In-Place/Removed?	Date
1	1,000	Diesel	Removed	1/7/91
2	1,000	Diesel	Removed	4/7/92
3	5,000	Gasoline	Removed	4/7/92

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown		
Site characterization complete? Yes	Date Approved By Oversight Agency: 6/11/97	
Monitoring wells installed? No	Number:	Proper screened interval?
Highest GW Depth BGS (ft): 18	Lowest Depth: 19	Flow Direction: SW
Most Sensitive Current Use:		
Most Sensitive Potential Use and Probability of Use		
Are drinking water wells affected? No	Aquifer Name:	
Is surface water affected? No	Nearest/Affected SW Name:	
Off-Site Beneficial Use Impacts (Addresses/Locations):		
Report(s) on file? Yes	Where is report(s) filed? City of San Leandro	

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	2-1,000, 1-5,000	Removed	1991-2
Piping			
Free Product	None		
Soil	750 c. y. 1,700 c.y.	Disposed of at Redwood Landfill Disposed of at Altamont Landfill	1992 1995
Groundwater			
Barrels			

MAXIMUM POLLUTANT CONCENTRATIONS-BEFORE AND AFTER CLEANUP

	Before	After	Before	After		Before	After	Before	After
POLLUTANT	Soil (ppm)		Water (ppb)		POLLUTANT	Soil (ppm)		Water (ppb)	
TPH (Gas)	ND	100	NT	ND	TPH (Diesel)	5,200	1,300	NT	5,200
Benzene	0.12	ND	NT	ND	MTBE	NT	ND	NT	ND
Toluene	0.18	ND	NT	ND					
Ethylbenzene	0.015	ND	NT	ND					
Xylene	0.035	ND	NT	ND					

Comments: Between 1991 and 1992 two diesel USTs and one gasoline UST were removed from the yard of the equipment rental shop. Post-removal soil sampling indicated the presence of diesel contamination in the soil. Overexcavation of the contaminated soil occurred in two phases in 1991 and 1992. A total of 2,400 cubic yards of soil was overexcavated from underneath the former USTs. Based on field observations during the overexcavation activities the contamination was limited to the capillary fringe zone. As a result, the excavation was backfilled and paved over. In 1997, five exploratory soil boring were drilled around the former tank pit using direct push technology. Soil and groundwater samples were collected from each boring. The results of the investigation indicated that the only groundwater contaminant was diesel. Please see the attached figures and tables for a complete summary of all sampling locations and sampling results.

No further investigation or remediation is recommended at 14273 Washington for the following reasons:

1. All vadose zone contamination was removed from the property. Diesel contamination only remains in the capillary fringe and saturated zones at 18 to 20 feet bgs.

2. BTEX and MTBE are not present in the soil or groundwater.

3. The levels of TPHdiesel found in the groundwater do not represent a threat to water quality.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per Regional Board Basin Plan? **Yes**		
Does completed corrective action protect potential beneficial uses per Basin Plan? **Yes**		
Does corrective action protect public health for current land use? **Yes**		
Site Management Requirements:		
Monitoring Wells Decommissioned: **NA**	Number Decommissioned:	Number Retained:
List Enforcement Actions Taken: **NONE**		
List Enforcement Actions Rescinded:		

V. TECHNICAL REPORTS, CORRESPONDENCE ETC., THAT THIS CLOSURE RECOMMENDATION WAS BASED UPON

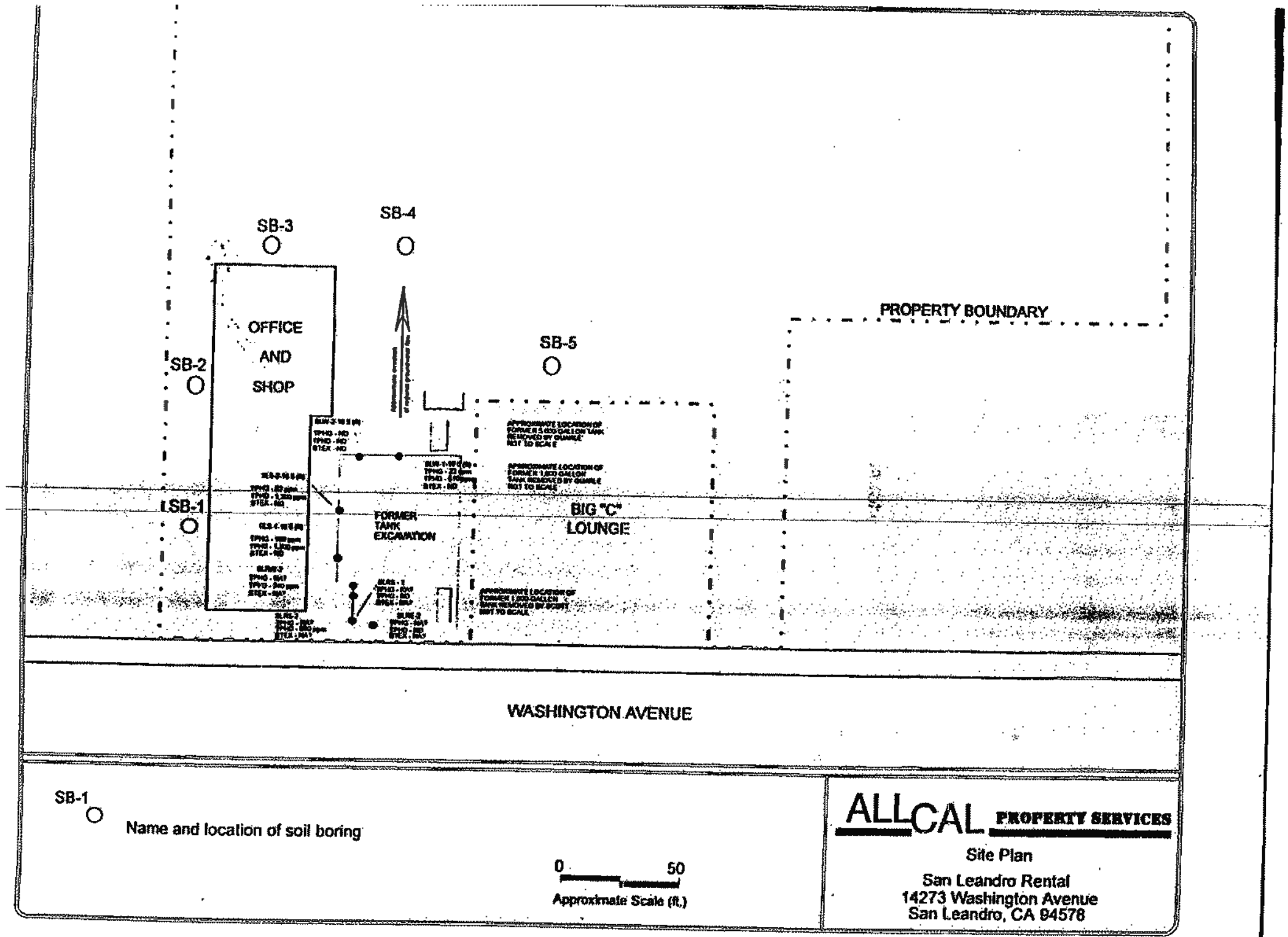
Title:	Date:
Report of Soil and Groundwater Investigation by ALLCAL	May 14, 1997

VI. ADDITIONAL COMMENTS, DATA, ETC.

Based on a review of the data provided to the City of San Leandro, the City recommends that case closure be granted for 14273 Washington.

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

FIGURES



SB-1 ○ Name and location of soil boring

0 — 50
Approximate Scale (ft.)

ALLCAL PROPERTY SERVICES

Site Plan

San Leandro Rental
14273 Washington Avenue
San Leandro, CA 94578

SOIL AND GROUNDWATER INVESTIGATION RESULTS

TABLE 1

SUMMARY OF SOIL AND GROUNDWATER CHEMICAL ANALYSES

Soil Boring	Matrix	Depth (ft)	TPHD	TPHG	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
SB-1	soil[1]	13-13.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-1	soil	18-18.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-2	soil	13-13.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-2	soil	18-18.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-3	soil	13-13.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-3	soil	18-18.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-4	soil	13-13.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-4	soil	18-18.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-5	soil	13-13.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-5	soil	18-18.5	8.3,c	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-1	water[2]	NA	<50,i	<50	<0.5	<0.5	<0.5	<0.5	<5.0
SB-2	water	NA	90,b.i	<50	<0.5	<0.5	<0.5	<0.5	<5.0
SB-3	water	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<5.0
SB-4	water	NA	510,a,i	<50	<0.5	<0.5	<0.5	<0.5	<5.0
SB-5	water	NA	2,800,a,i	<50,i	<0.5	<0.5	<0.5	<0.5	<5.0
Trip Blank	water	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<5.0

[1] Contaminant concentrations for soil reported in parts per million (ppm).

[2] Contaminant concentrations for water reported in parts per billion (ppb).

a) Unmodified or weakly modified diesel is significant.

b) Diesel range compounds are significant; no recognizable pattern.

c) Aged diesel? is significant.

i) Liquid sample that contains greater than about 5% volume sediment.

Cal/EPA

San Francisco Bay
Regional Water
Quality Control
Board

2101 Webster Street
Suite 500
Oakland, CA 94612
(510) 286-1255
FAX (510) 286-1380

Pete Wilson
Governor

June 17, 1997
File No. 2198.17 (KLG)
RB File No. 01-1295

Mr. Victor Baldi
San Leandro Equipment Rental Service, Inc.
14273 Washington Ave.
San Leandro, CA 94578

Subject: Transmittal of the Closure Letter and Summary
San Leandro Rental
14273 Washington Street, San Leandro, CA

Mr. Baldi:

Attached please find the uniform underground storage tank closure letter and the site closure summary form for the subject site.

Please contact Kevin Graves of my staff at (510) 286-0435 if you have any questions regarding this matter.

Sincerely,

Loretta K. Barsamian
Executive Officer

Stephen I. Morse
Chief, Toxics Division

Enclosure: Closure Letter
Site Closure Summary

cc w/att: Mike Bakaldin, City of San Leandro
Dave Deaner, CSWRCB

sanrentra

Cal/EPA

San Francisco Bay
Regional Water
Quality Control
Board

2101 Webster Street
Suite 500
Oakland, CA 94612
(510) 286-1255
FAX (510) 286-1380

Pete Wilson
Governor

June 17, 1997
File No. 2198.17 (KLG)
RB File No. 01-1295

Mr. Victor Baldi
San Leandro Equipment Rental Service, Inc.
14273 Washington Ave.
San Leandro, CA 94578

Subject: Closure Letter for San Leandro Rental,
14273 Washington Street, San Leandro, CA

Dear Mr. Baldi:

This letter confirms the completion of site investigation and remedial action for the underground storage tank(s) formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquires concerning the former underground storage tank(s) are greatly appreciated.

Based on the information in the above-referenced file 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 tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations .

Please contact our office if you have any questions regarding this matter.

Sincerely,

for Loretta K. Barsamian
Executive Officer

sanrent.cls

Recycled Paper

City of San Leandro
Environmental Services Division
Complaint/Illicit Discharge/Spill Report

Source of Information

Name:	PW Streets Staff	Date:	9/18/14	Time:	12:30 PM
Phone #:	577-3440	Address:	14200 Chapman Rd		
Complaint:	Sampling manhole in landscaping overflowing				
☐ Storm Drain ☐ Sanitary Sewer ☐ Gutter ☐ Mobile Washer ☒ Other:	Landscape area				
Information received by:	Camp				
Incident Location:	14273 Washington ave				

Investigation

Date	9/18/2014	Time:	13:45	EPS:	Camp
Discharge/Complaint Location:	14273 Washington ave				
Weather Conditions:	☐ Clear ☐ Overcast ☐ Rainy ☐ Windy				
Vehicle Involved:	☐ Yes ☐ Car ☐ Pick-up ☐ Truck ☐ Van ☐ No				

Year		Make:		Model:		License:	State:

Material Description:

☒ Liquid ☐ Flowing ☐ Entered Storm Sewer
☐ Solid ☐ Stationary ☐ Entered Sanitary
☐ Gas ☐ Powder ☐ Sample Taken

Odor:
Color:
Quantity Spilled: unk

Source of Spill:	Lateral blockage with grit
Alleged Responsible Party:	Joe Silviera, Apollo Motorhomes
Phone #: 510-229-0070	Address: 14273 Washington Av
Is the alleged RP ordered to clean up? ☐ Yes ☐ No	By when? OLSD AHJ
Outside agency notification:	OLSD
Outside contractor:	Clean up participants: Roto Rooter

Narrative:

In OLSD service area, discharge from washrack with pretreatment. Since it might be pretreatment related and OLSD responsible for lateral permitting up to the Building contacted OLSD and turned over to them.

Information provided by OLSD and Apollo to complete compaint report
Lift Station for washrack discharge plugged with grit, backing up and overflowing out wetwell into landscaping. Soapy water contained in the landscaping. Joe said just had safety clean service the sand separator but seams has not been serviced in a long time so must have already passed enough solids to create blockage.
Stopped use of washrack and roto rooter working on cleaning blockage.

Follow-up

Source of information contacted for follow-up?	☒ Yes ☐ No
Enforcement:	

City of San Leandro
Environmental Services Division
Complaint/Illicit Discharge/Spill Report

Source of Information

Name:	US EPA	Date:	7/15/03	Time:	
Phone #:	357-5900	Address:	14273 Washington		

Complaint: storm water discharge- on-going

☒ Storm Drain ☐ Sanitary Sewer ☐ Gutter ☐ Mobile Washer ☐ Other:

Information received by: Busche

Incident Location: 14273 Washington

Investigation

Date	7/15/2003	Time:		EPS:	Busche

Discharge/Complaint Location: 14273 Washington

Weather Conditions: ☒ Clear ☐ Overcast ☐ Rainy ☐ Windy

Vehicle Involved: ☐ Yes ☐ Car ☐ Pick-up ☐ Truck ☐ Van ☒ No

Year		Make:		Model:		License:	State:

Material Description:

☐ Liquid ☐ Flowing ☐ Entered Storm Sewer
☐ Solid ☐ Stationary ☐ Entered Sanitary
☐ Gas ☐ Powder ☐ Sample Taken

Odor:
Color:
Quantity Spilled:

Source of Spill: 14273 Washington- United Rentals

Alleged Responsible Party:

Phone #: Address:

Is the alleged RP ordered to clean up? ☐ Yes ☐ No By when?

Outside agency notification:

Outside contractor: Clean up participants:

Narrative:

received complaint from Sergio Lopez- called to get further information and did not return call. The complaint alleges illegal stormwater discharge. Inspection scheduled for 7/22/03. The facility manager was not present the previous week or inspection would have been scheduled at that time. completed inspection with EPA rep, found two sources of discharge, one was in front of the property, the other towards the rear. Discharge was from truck and vehicle washing. See inspection letter for more information

Follow-up

Source of information contacted for follow-up? ☐ Yes ☐ No

Enforcement: Written Notice

APPENDIX H

Pertinent Historical Documentation

ALLCAL PROPERTY SERVICES, INC.
ENVIRONMENTAL INVESTIGATIONS

REPORT
OF
SOIL AND GROUNDWATER INVESTIGATION

SAN LEANDRO RENTAL
14273 WASHINGTON AVENUE
SAN LEANDRO, CA 94578

Prepared for:
MR. VICTOR BALDI JR.
SAN LEANDRO RENTAL
14273 WASHINGTON AVENUE
SAN LEANDRO, CA 94578

May 14, 1997

27973 HIGH COUNTRY DRIVE • HAYWARD, CA 94542-2530 • (510) 581-2320 • FAX (510) 581-8490

REPORT
OF
SOIL AND GROUNDWATER INVESTIGATION

SAN LEANDRO RENTAL
14273 WASHINGTON AVENUE
SAN LEANDRO, CA 94578

Prepared for:
MR. VICTOR BALDI JR.
SAN LEANDRO RENTAL
14273 WASHINGTON AVENUE
SAN LEANDRO, CA 94578
May 14, 1997

Submitted by:
Allcal Property Services, Inc.
27973 High Country Drive
Hayward, CA 94542
(510) 581-2320

This report has been prepared by Allcal Property Services, Inc. by the California Registered Geologist whose seal and signature appear below.

The findings, recommendations, specifications or professional opinions are presented in accordance with generally accepted professional geologic practice. No other warranty is expressed or implied.

John V. Mrakovich, Ph.D.
California Registered Geologist

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1. SITE PLAN

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1. SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

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B. SOIL SAMPLE HANDLING PROCEDURES, QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES, AND WASTE HANDLING AND DECONTAMINATION PROCEDURES

C. EXPLORATORY BORING LOGS

D. CERTIFIED ANALYTICAL REPORT AND CHAIN-OF-CUSTODY

1.0 INTRODUCTION

The subject site is San Leandro Rental located at 14273 Washington Avenue in San Leandro, California 94578. The site's contact person is Mr. Victor D. Baldi Jr.; telephone number (510) 357-5900. This report documents a soil and groundwater investigation conducted under the direction of Allcal Property Services, Inc. (ALLCAL), located in Hayward, California.

This report is prepared under contract to San Leandro Rental.

2.0 BACKGROUND

The following background regarding tank closures and soil remediation, at the subject site, is summarized from information provided by San Leandro Rental and from files maintained by the City of San Leandro Fire Department (SLFD).

2.1 Tank Closures and Soil Remediation

On January 7, 1991, a 1,000-gallon diesel tank was removed by Scott Company of California (Scott) from a location adjacent to the sidewalk of Washington Avenue and the site's property boundary with Big "C" Lounge (see Figure 1). After removing the tank, soil samples were collected from the floor of the tank excavation and analyzed for total petroleum hydrocarbons as diesel (TPHD) and for benzene, toluene, ethylbenzene, and xylenes (BTEX). Because contamination was detected, an Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report was filed with the SLFD. On January 17, 1991, the contaminated soil was excavated by San Leandro Rental to a depth of about 20 feet (just above groundwater); soil samples collected from the floor of the overexcavated pit detected TPHD at concentrations of up to 1,000 parts per million (ppm). No further remedial work was conducted. The excavation was closed and the excavated contaminated soil was stockpiled at the rear of the property.

On April 7, 1992, a second 1,000-gallon diesel tank and a 5,000-gallon gasoline tank were removed by J. Quarle' & Associates (Quarle'). The tanks were located across from the present day office (see Figure 1). Quarle' also removed underground piping that led to the tank removed earlier by Scott. Soil samples were collected from each tank excavation and from the pipeline trench and analyzed for total petroleum hydrocarbons as gasoline (TPHG), TPHD, and BTEX. On April 10, 1992, the above two tank excavations and pipeline trench were backfilled. Analytical results from the above soil samples were nondetectable, with the exception of 460 ppm TPHD detected in a pipeline trench soil sample collected adjacent to the former tank removed by Scott.

On April 27, 1992, Quarle' began re-excavating the tank pit closed by Scott and overexcavating contaminated soil associated with the former piping. The resultant excavation reached a size of about 50 by 70 feet (see Figure 1). Final soil samples collected by Quarle'

on June 3 and 17, 1992, from the excavation's sidewall adjacent to the shop, detected TPHG and TPHD of up to 100 ppm and 1,300 ppm, respectively (see Figure 1). Excavated soil was stockpiled at the rear of the property. By the end of June, 1992, Quarle' had backfilled the excavation with material imported by Alviso Rock.

2.2 Disposal of Stockpiled Soil

All excavated soil, about 2,450 cubic yards (cyds), was disposed of either at Redwood Landfill Inc. located in Novato, California or at Altamont Landfill and Resource Recovery Facility located in Livermore, California (Altamont Landfill).

Quarle' sampled and arranged for disposal of about 750 cyds of stockpiled soil to Redwood Landfill. Acceptance by Redwood Landfill required that the gasoline and diesel contaminated soil be sampled at the rate of four separate samples, composited into one by the analyzing laboratory, for each 100 cyds and that the soil pass acceptance limits for TPHG, BTEX, TPHD, and organic lead. Laboratory analyses were conducted by McCampbell Analytical, Inc. and Sequoia Analytical located in Pacheco, California and Redwood City, California, respectively.

The remainder of the soil, about 1,700 cyds, was sampled by Ned Pepper Inc. and disposed of at Altamont Landfill. Acceptance by Altamont Landfill required that representative sampling of gasoline and diesel contaminated soil be conducted per Test Methods for Evaluation of Solid Waste, Volume II: EPA Field Manual, Physical/Chemical Method, Chapter 9, and that the soil pass acceptance limits for TPHG, BTEX, TPHD, and lead. The method of representative sampling by Ned Pepper Inc. has not been determined. Laboratory analyses were conducted by Sparger Technology, Inc., located in Sacramento, California.

3.0 SOIL AND GROUNDWATER INVESTIGATION

As a further investigation of gasoline and diesel contamination of the vadose zone soil and groundwater, ALLCAL directed the drilling of 5 exploratory soil borings for the collection and analysis of soil and "grab" groundwater samples.

The following work was conducted:

- Submitted an April 3, 1997, workplan to the SLFD for their comment and approval.

- Obtained a soil boring permit from the Alameda County Flood Control and Water Conservation District, Water Resources Management Zone 7 (Zone 7); notified Underground Service Alert; and subcontracted an underground utility

locator to minimize the potential of encountering buried utilities or other metal objects while drilling the soil borings.

- Drilled 5 exploratory soil borings.
- Collected soil samples from each boring at depths of about 13 and 18 feet for logging of the soil profile and for chemical analysis.
- Collected a "grab" groundwater sample from each boring for chemical analysis.
- Analyzed all soil and groundwater samples for TPHG, TPHD, BTEX, and MTBE, with the exception of boring SB-3 in which the groundwater sample volume was not enough for analysis for TPHD.
- Sealed all borings to ground surface with neat Portland cement.
- Prepared this report.

Details of the above work are presented below.

3.1 Prefield Activities

Prior to drilling the exploratory soil borings, ALLCAL: (1) obtained a soil boring permit from Zone 7 (see Appendix A), (2) visited the site to mark the locations of the proposed borings and notified Underground Service Alert, (3) subcontracted an underground utility locator to "clear" each boring location, and (4) gave 48 hours notice to the SLFD prior to drilling the borings.

3.2 Locations of Exploratory Soil Borings

Five exploratory soil borings (SB-1 through SB-5) were drilled at the approximate locations shown in Figure 1. The locations were chosen based on drill rig accessibility, distance from the former excavation, and the approximate direction of regional groundwater flow. Direction of regional groundwater flow was obtained from Woodward-Clyde Consultants' December 29, 1993, report of HYDROGEOLOGY OF CENTRAL SAN LEANDRO AND REMEDIAL INVESTIGATION OF REGIONAL GROUNDWATER CONTAMINATION, SAN LEANDRO PLUME, SAN LEANDRO, CALIFORNIA, VOLUME I.

3.3 Soil and Groundwater Sampling

The following discusses soil boring and sampling procedures. See Appendix B for ALLCAL's sample handling procedures, quality assurance and quality control procedures, and waste handling and decontamination procedures.

(1) Soil Boring and Soil Sampling Procedures

Borings SB-1 and SB-2 were drilled to total depths of 25 feet and borings SB-3, SB-4, and SB-5 were drilled to total depths of 24 feet. Groundwater was encountered in all borings at a depth of about 19 feet.

All borings were drilled with the small diameter (1.5-inch), direct-push technology, Geoprobe System,. Soil samples were collected from each boring at depth intervals of about 12.0 to 14.0 feet and 17.0 to 19.0 feet. From these intervals, samples were collected for chemical analyses at depths of about 13.0 to 13.5 feet and 18.0 to 18.5 feet. The soil was collected by hydraulically pushing a closed, 2-foot long sampler, containing an acetate liner, to the chosen sample depth. Then, the sampler was remotely opened and pushed 2 feet to receive a core of soil. After filling the sampler with soil, the sampler was retrieved and the soil was examined for contamination and construction of lithologic logs, and a portion selected for chemical analysis.

To minimize the potential for cross-contamination, the sampler was washed with Alconox detergent and rinsed with distilled water between sampling events.

After each boring was drilled to its final depth, a "grab" groundwater sample was collected for chemical analysis. Groundwater samples were collected by inserting a 4-foot long stainless steel screened casing to the bottom of the boring and allowing time for groundwater to enter the casing. "Grab" water samples were collected by the inertia method which used polyethylene tubing with a miniature stainless steel check valve attached at the end. The check valve, with attached tubing, was lowered into the water column and moved up and down to force water past the check valve and into the tubing. The check valve allowed water to enter the tubing but not exit downward; consequently, water filled the tubing until it reached ground surface where it was decanted into containers for preservation for chemical analysis.

Groundwater yield was low in boring SB-3 and the volume of water collected was only sufficient for analysis for TPHG, BTEX, and MTBE.

After all samples were collected, each boring was sealed to grade with neat cement.

The soil in each boring was logged according to the Unified Soil Classification System by a California Registered Geologist and exploratory boring logs were constructed (see Appendix C).

Drill cuttings and rinsate are stored on site in 5-gallon pails labeled to show contents, date stored, suspected contaminant, expected date of removal, company name, contact person, and telephone number. Maintenance of the pails and their contents is the responsibility of San Leandro Rental.

(2) Sample Handling Methods

Soil samples were examined for apparent contamination based on field-screening criteria that included visible staining and hydrocarbon odors. No apparent soil contamination was detected in any soil samples. Samples selected for chemical analysis were preserved in acetate liners with no headspace by quickly covering the open ends with Teflon sheeting and capping them with plastic end-caps. The samples were labeled to show site name, project number, date, time, sample name, depth collected, and sampler name; sealed in quart-size plastic bags; and stored in an iced-cooler.

"Grab" groundwater samples were stored in laboratory provided, 1-liter, amber bottles and 40-milliliter, HCL-preserved VOAs having Teflon-lined plastic caps. Each sample was labeled and stored as above.

(3) Chemical Analyses

All soil and groundwater samples were delivered under chain-of-custody to California Department of Health Services certified McCampbell Analytical, Inc., located in Pacheco, California, for chemical analysis for TPHD, TPHG, BTEX, and MTBE by EPA Methods GCFID, 3550/8015, GCFID 5030/8015, 8020, and 8020, respectively.

3.4 Results of Chemical Analyses

Soil Samples

Results of chemical analyses for all soil samples were nondetectable, with the exception of the sample collected at the depth of 18.0 to 18.5 feet in the boring of SB-5 in which TPHD was detected at a concentration of 8.3 ppm; the laboratory noted that the contaminant appeared to be aged diesel.

"Grab" Groundwater Samples

TPHG, BTEX, and MTBE were nondetectable in all "grab" groundwater samples, with the exception of xylenes detected in the samples from the borings of SB-1, SB-3, and SB-4 at concentrations of .77 ppb, 1.0 ppb, and .63 ppb, respectively.

TPHD was detected in the water samples from the borings of SB-2, SB-4, and SB-5 at concentrations of 90 ppb, 510 ppb, and 2,800 ppb, respectively. Not enough water sample was collected from the boring of SB-3 for chemical analysis for TPHD.

The laboratory reported that all water samples contained greater than 5% volume of sediment and the TPHD was either unmodified or weakly modified diesel or significant diesel range compounds with no recognized pattern.

Results of soil and groundwater chemical analyses are summarized in Table 1 and documented with a certified analytical report and chain-of-custody in Appendix D.

4.0 RECOMMENDATION

ALLCAL recommends site closure be granted by the SLFD for the following reasons:

(1) The underground fuel tanks, the primary source of contamination to the soil and groundwater, and about 2,450 cyds (in place) of fuel contaminated soil, a secondary source of contamination, have been removed. The former excavation has been closed with imported clean backfill material and the ground surface has been capped with a concrete surface having no cracks or leaks through which surface water may enter to leach residual soil contamination into the groundwater or clean soil or to allow for vapor emissions.

There is no evidence that sufficient product remains in the soil to move as leachate, vapor, or by gravity flow to further degrade groundwater quality or result in a significant threat to human health or the environment.

(2) The mass of the remaining fuel plumes in the soil and groundwater will eventually be cleaned-up by passive bioremediation processes. Passive bioremediation is demonstrated to be presently working based on the detection of aged diesel and the complete lack of BTEX chemicals, with the exception of trace concentrations of xylenes in "grab" groundwater samples collected from soil borings SB-1 through SB-5.

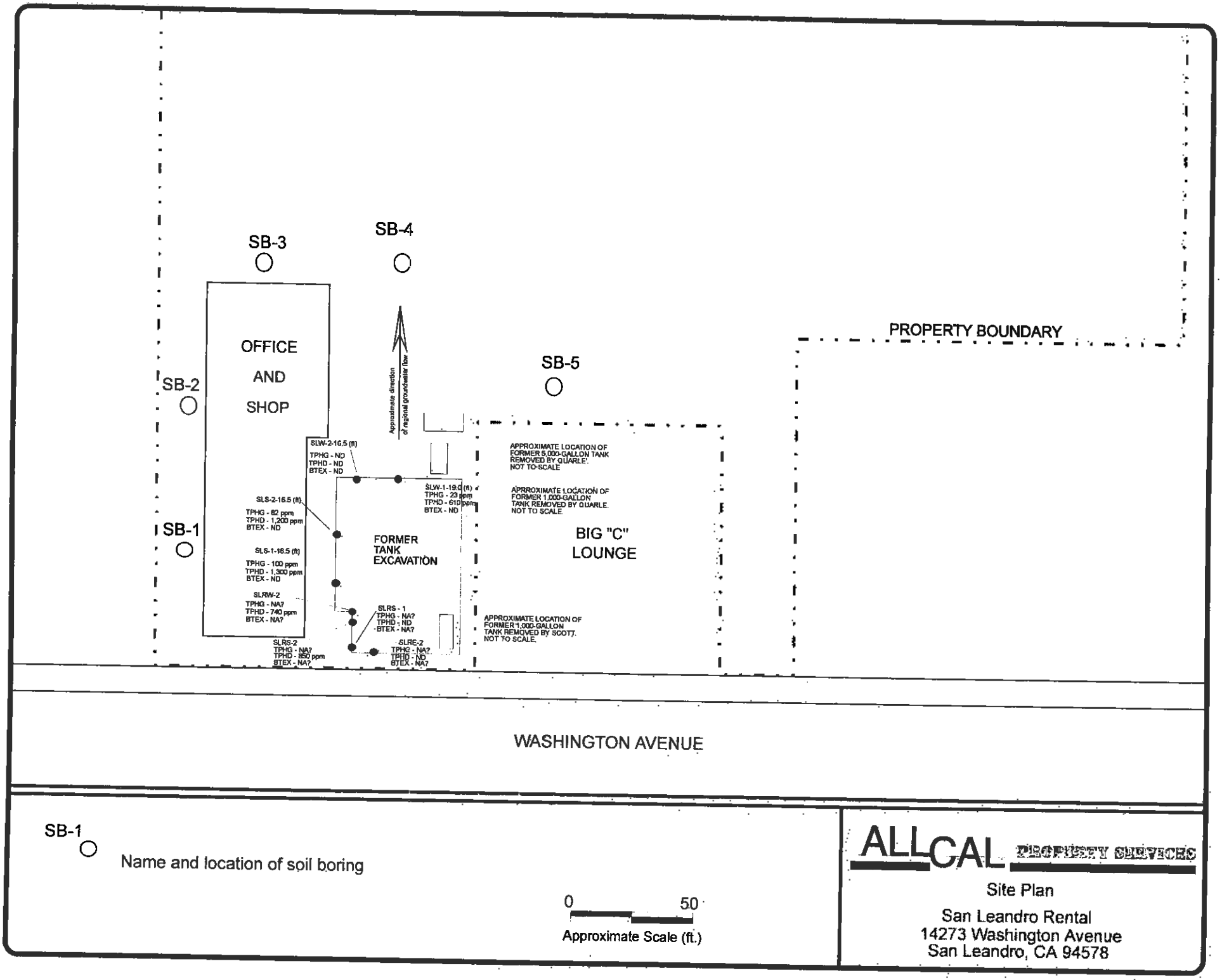
(3) The results of this investigation suggest there are no significant soil or groundwater BTEX plumes at the subject site, if any. If plumes exist on the site between the sampling locations, they would be of limited aerial extent and are apparently stabilized.

Although residual concentrations of TPHG and TPHD up to 100 ppm and 1,300 ppm, have been detected in the soil at the former tank excavation and TPHD has been detected up to 2,800 ppb in the groundwater of boring SB5, the ASTM Standard Guide for Risk-based Corrective Action Applied at Petroleum Release Sites says: "TPH analyses should not be used for risk assessment because the general measure of TPH provides insufficient information about the amounts of individual chemical(s) of concern present."

5.0 LIMITATIONS

This report is based on laboratory analyses of soil and groundwater samples. The chemical analytical results for the samples are considered applicable to that location from which they were collected. The conclusions contained herein are based on the field observations, analytical data, and professional judgement which is in accordance with current standards of professional practice. Representations made of soil and groundwater conditions between sample locations are extrapolations based on professional opinions and judgements and accepted industry practice. No warranty is expressed or implied. The extent of testing and data collection directly affects the statistical confidence level of all work performed. As a practical matter, to reach or even approach a 100 percent statistical level would be prohibitively expensive.

The findings and conclusions of this report are valid as of the present time; however, the passing of time could change the conditions of the subsurface due to natural processes or the influence of man. Accordingly, the findings of this report may be invalidated, wholly or partly, by changes beyond ALLCAL's control. Therefore, this report should not be relied upon after an extended period of time without being reviewed by a Civil Engineer or Registered Geologist.



SB-1 ○ Name and location of soil boring

0 50

Approximate Scale (ft.)

ALLCAL PROPERTY SERVICES

Site Plan

San Leandro Rental
14273 Washington Avenue
San Leandro, CA 94578

TABLE 1

SUMMARY OF SOIL AND GROUNDWATER CHEMICAL ANALYSES

Soil Boring	Matrix	Depth (ft)	TPHD	TPHG	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
SB-1	soil[1]	13-13.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-1	soil	18-18.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-2	soil	13-13.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-2	soil	18-18.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-3	soil	13-13.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-3	soil	18-18.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-4	soil	13-13.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-4	soil	18-18.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-5	soil	13-13.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-5	soil	18-18.5	8.3,c	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
SB-1	water[2]	NA	<50,i	<50	<0.5	<0.5	<0.5	<0.5	<5.0
SB-2	water	NA	90,b,i	<50	<0.5	<0.5	<0.5	<0.5	<5.0
SB-3	water	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<5.0
SB-4	water	NA	510,a,i	<50	<0.5	<0.5	<0.5	<0.5	<5.0
SB-5	water	NA	2,800,a,i	<50,i	<0.5	<0.5	<0.5	<0.5	<5.0
Trip Blank	water	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<5.0

[1] Contaminant concentrations for soil reported in parts per million (ppm).

[2] Contaminant concentrations for water reported in parts per billion (ppb).

a) Unmodified or weakly modified diesel is significant.

b) Diesel range compounds are significant; no recognizable pattern.

c) Aged diesel? is significant.

i) Liquid sample that contains greater than about 5% volume sediment.

APPENDIX A

ZONE 7 WATER AGENCY DRILLING PERMIT APPLICATION

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 VOICE (510) 484-2600
FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT SAN LEANDRO RENTALS
14273 WASHINGTON AVE
SAN LEANDRO, CA 94577

CLIENT
Name VICTOR BALDI JR.
Address AS ABOVE Voice 510 357 5900
City _____ Zip _____

APPLICANT
Name JOHN MRAKOVICH
ALLCAL PROPERTY SVS Fax 510 581 8490
Address 27973 ALTA COUNTRY DR Voice 510 581 2320
City HAYWARD, CA Zip 94542

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	____	General	____
Water Supply	____	Contamination	____
Monitoring	____	Well Destruction	____

PROPOSED WATER SUPPLY WELL USE
Domestic ___ Industrial ___ Other _____
Municipal ___ Irrigation ___

DRILLING METHOD:
Mud Rotary ____ Air Rotary ____ Auger ____
Cable ____ Other GEOPROBE

DRILLER'S LICENSE NO. C-57 589008

WELL PROJECTS

Drill Hole Diameter	____ in.	Maximum Depth	____ ft.
Casing Diameter	____ in.		
Surface Seal Depth	____ ft.	Number	____

GEOTECHNICAL PROJECTS

Number of Borings	5	Maximum Depth	25 ft.
Hole Diameter	2 in.		

ESTIMATED STARTING DATE 4/25/97
ESTIMATED COMPLETION DATE 4/25/97

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE John Mrakovich Date 4/17/97

FOR OFFICE USE

PERMIT NUMBER 97256
LOCATION NUMBER _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL
(1.) A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
(3.) Permit is void if project not begun within 90 days of approval date.

B. WATER WELLS, INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

(C.) GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

E. WELL DESTRUCTION. See attached.

Approved Wyman Hong Date 25 Apr 97
Wyman Hong

91992

APPENDIX B

SAMPLE HANDLING PROCEDURES

QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES

WASTE HANDLING AND DECONTAMINATION PROCEDURES

SAMPLE HANDLING PROCEDURES

Soil and groundwater samples will be packaged carefully to avoid breakage or contamination and will be delivered to the laboratory in an iced-cooler. Sample bottle/sleeve lids will not be mixed. All sample lids will stay with the original containers.

Samples will be stored in iced-coolers to maintain custody, control temperature, and prevent breakage during transportation to the laboratory. Ice, blue ice, or dry ice (dry ice will be used for preserving soil samples collected for the Alameda County Water District) will be used to cool samples during transport to the laboratory. Water samples will be cooled with crushed ice. In the Alameda County Water District, water samples will be buried in the crushed ice with a thermometer, and the laboratory will be requested to record thermometer temperature at the time of receipt.

Each sample will be identified by affixing a label on the container(s). This label will contain the site identification, sample identification number, date and time of sample collection, and the collector's initials.

Soil samples collected in brass or stainless-steel tubes will be preserved by covering the ends with Teflon tape and capping with plastic end-caps. The tubes will be labeled, sealed in quart-size bags, and placed in an iced-cooler for transport to the laboratory.

All groundwater sample containers will be precleaned and will be obtained from a State Department of Health Services certified analytical laboratory.

A chain-of-custody form will be completed for all samples and accompany the sample cooler to the laboratory. All sample transfers will be documented in the chain-of-custody. All field personnel are personally responsible for sample collection and the care and custody of collected samples until the samples are transferred or properly dispatched.

The custody record will be completed by the field technician or professional who has been designated as being responsible for sample shipment to the appropriate laboratory. The custody record will include the following information: site identification, name of person collecting the sample(s), date and time sample(s) were collected, type of sampling conducted (composite/grab), location of sampling station, number and type of containers used, and signature of the person relinquishing samples to another person with the date and time of transfer noted.

QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES

The overall objectives of the field sampling program include generation of reliable data that will support development of a remedial action plan. Sample quality will be checked by the use of proper sampling, handling, and testing methods. Additional sample quality control methods may include the use of background samples, equipment rinsate samples, and trip and field blanks. Chain-of-custody forms, use of a qualified laboratory, acceptable detection limits, and proper sample preservation and holding times also provide assurance of accurate analytical data.

A quality assurance and quality control (QA/QC) program may be conducted in the field to ensure that all samples collected and field measurements taken are representative of actual field and environmental conditions and that data obtained are accurate and reproducible. These activities and laboratory QA/QC procedures are described below.

Field Samples: Additional samples may be taken in the field to evaluate both sampling and analytical methods. Three basic categories of QA/QC samples that may be collected are trip blanks, field blanks, and duplicate samples.

Trip blanks are a check for cross-contamination during sample collection, shipment, and laboratory analysis. They are water samples that remain with the collected samples during transportation and are analyzed along with the field samples to check for residual contamination. Analytically confirmed organic-free water will be used for organic parameters and deionized water for metal parameters. Blanks will be prepared by the laboratory supplying the sample containers. The blanks will be numbered, packaged, and sealed in the same manner as the other samples. One trip blank will be used for each sample set of less than 20 samples. At least 5% blanks will be used for sets greater than 20 samples. The trip blank is not to be opened by either the sample collectors or the handlers.

The field blank is a water sample that is taken into the field and is opened and exposed at the sampling point to detect contamination from air exposure. The water sample is poured into appropriate containers to simulate actual sampling conditions. Contamination due to air exposure can vary considerably from site to site.

The laboratory will not be informed about the presence of trip and field blanks, and false identifying numbers will be put on the labels.

Duplicate samples are identical sample pairs (collected in the same place and at the same time), placed in identical containers. For soils, adjacent sample liners will be analyzed. For the purpose of data reporting, one is arbitrarily designated the sample, and the other is designated as a duplicate sample. Both sets of results are reported to give an indication of the precision of sampling and analytical methods.

The laboratory's precision will be assessed without the laboratory's knowledge by labeling one of the duplicates with false identifying information. Data quality will be evaluated on the basis of the duplicate results.

Laboratory QA/QC: Execution of a strict QA/QC program is an essential ingredient in high-quality analytical results. By using accredited laboratory techniques and analytical procedures, estimates of the experimental values can be very close to the actual value of the environmental sample. The experimental value is monitored for its precision and accuracy by performing QC tests designed to measure the amount of random and systematic errors and to signal when correction of these errors is needed.

The QA/QC program describes methods for performing QC tests. These methods involve analyzing method blanks, calibration standards, check standards (both independent and the United States Environmental Protection Agency-certified standards), duplicates, replicates, and sample spikes. Internal QC also requires adherence to written methods, procedural documentation, and the observance of good laboratory practices.

WASTE HANDLING AND DECONTAMINATION PROCEDURES

Decontamination: Any drilling, sampling, or field equipment that comes into contact with soil or groundwater will be decontaminated prior to its use at the site and after each incident of contact with the soil or groundwater being investigated. Decontamination is essential to obtain samples that are representative of environmental conditions and to accurately characterize the extent of soil and groundwater contamination. Hollow-stem auger flights, the drill bit, and all other soil boring devices will be steam-cleaned between the drilling of each boring.

All sample equipment, including the split-spoon sampler and brass or stainless-steel tubes, will be cleaned by washing with trisodium phosphate or Alconox detergent, followed by rinsing with tap water. Where required by specific regulatory guidelines, a nonphosphate detergent will be used.

Waste Handling: Waste materials generated during site characterization activities will be handled and stored as hazardous waste and will be stored on site in appropriately labeled containers. Waste materials anticipated include: excavated soil, drill cuttings, development and purge water, water generated during aquifer testing, water generated during decontamination, and used personnel protection equipment such as gloves and Tyvek. The site owner will be responsible for providing the storage containers and will be responsible for the disposal of the waste materials. Drill cuttings from individual borings will be stored separately in drums or covered by plastic sheeting, and the appropriate disposal procedure will be determined by the site owner following receipt of the soil sample analytical results. Storage containers will be labeled to show material stored, known or suspected contaminant, date stored, expected removal date, company name, contact, and telephone number.

APPENDIX C

EXPLORATORY BORING LOGS

EXPLORATORY BORING LOG

Project Number: 117
Project Name: 14273 Washington Avenue
San Leandro, CA 94578

Boring Number: SB-1
Page Number: 1

By: John Mrakovich
Date: 4/25/97
Surface Elevation: NA

RECOVERY (in/in.)	VAPORS (ppm)	PENETRATION (blows/ft.)	GROUND-WATER LEVEL	DEPTH (ft.)	SAMPLES	SOIL TYPE	DESCRIPTION
							0 - 2-INCHES: CONCRETE
				5			
				10			10 - 12 FT.: DRILLER REPORTS GRAVEL.
12/24						ML	12 - 14 FT.: CLAYEY SILT (ML), BROWN, SCATTERED GRAVEL, CLAY SEAMS, MOIST, NO ODOR.
				15			
20/24						ML	17 - 19 FT.: SILT (ML), BROWN, DAMP TO WET, NO ODOR.
				20			
				25			TOTAL DEPTH = 25 FT.

Remarks: BORING DRILLED WITH 1.5 - INCH DIRECT PUSH GEOPROBE SYSTEM. SAMPLES COLLECTED IN 1.25 BY 24 - INCH ACETATE LINER.

EXPLORATORY BORING LOG

Project Number: 117

Project Name: 14273 Washington Avenue
San Leandro, CA 94578

Boring Number: SB-2

Page Number: 1

By: John Mrakovich

Date: 4/25/97

Surface Elevation: NA

RECOVERY (in/in.)	VAPORS (ppm)	PENETRATION (blows/ft.)	GROUND-WATER LEVEL	DEPTH (ft.)	SAMPLES	SOIL TYPE	DESCRIPTION
							0 - 2-INCHES: CONCRETE
				5			
				10			
.75/24						SC	12 - 14 FT.: CLAYEY SAND (SC), BROWN, SILTY, MOIST, NO ODOR.
				15			
24/24						ML	17 - 18.75 FT.: SILT (ML), BROWN, CLAYEY, MOIST, NO ODOR.
						SP	18.75 - 10 FT.: SAND (SP), BROWN, MEDIUM TO COARSE-GRAINED, WET, NO ODOR.
				20			
				25			TOTAL DEPTH = 25 FT.

Remarks: BORING DRILLED WITH 1.5 - INCH DIRECT PUSH GEOPROBE SYSTEM. SAMPLES COLLECTED IN 1.25 BY 24 - INCH ACETATE LINER.

EXPLORATORY BORING LOG

Project Number: 117
Boring Number: SB-3
Project Name: 14273 Washington Avenue
San Leandro, CA 94578
Page Number: 1

By: John Mrakovich
Date: 4/25/97
Surface Elevation: NA

RECOVERY (in/in.)	VAPORS (ppm)	PENETRATION (blows/ft.)	GROUND-WATER LEVEL	DEPTH (ft.)	SAMPLES	SOIL TYPE	DESCRIPTION
							0 - 1-INCHES: ASPHALT
				5			
				10			
24/24						ML SP	12 - 12.5 FT.: CLAYEY SILT (ML), BROWN, DRY TO DAMP, NO ODOR. 12.5 - 14 FT.: SAND (SP), BROWN, FINE-GRAINED, SILTY, DRY TO DAMP, NO ODOR.
				15			
24/24						ML	17 - 19 FT.: SILTY SAND (SP), BROWN, FINE-GRAINED, WET, NO ODOR.
				20			
				25			TOTAL DEPTH = 24 FT.

Remarks: BORING DRILLED WITH 1.5 - INCH DIRECT PUSH GEOPROBE SYSTEM. SAMPLES COLLECTED IN 1.25 BY 24 - INCH ACETATE LINER.

EXPLORATORY BORING LOG

Project Number: 117

Project Name: 14273 Washington Avenue
San Leandro, CA 94578

Boring Number: SB-4

Page Number: 1

By: John Mrakovich

Date: 4/25/97

Surface Elevation: NA

RECOVERY (in/in.)	VAPORS (ppm)	PENETRATION (blows/ft.)	GROUND-WATER LEVEL	DEPTH (ft.)	SAMPLES	SOIL TYPE	DESCRIPTION
							0 - 1-INCHES: ASPHALT
				5			
				10			
24/24						ML	12 - 14 FT.: CLAY (CL), BROWN, SILTY, SCATTERED GRAVEL, DRY TO DAMP, NO ODOR.
				15			
12/24						GP	17 - 19 FT.: GRAVEL (GP), OLIVE-GREY, MEDIUM TO COARSE-GRAINED, DAMP TO WET, NO ODOR.
				20			
							TOTAL DEPTH = 24 FT.
				25			

Remarks: BORING DRILLED WITH 1.5 - INCH DIRECT PUSH GEOPROBE SYSTEM. SAMPLES COLLECTED IN 1.25 BY 24 - INCH ACETATE LINER.

EXPLORATORY BORING LOG

Project Number: 117
Boring Number: SB-5
Project Name: 14273 Washington Avenue
San Leandro, CA 94578
Page Number: 1

By: John Mrakovich
Date: 4/25/97
Surface Elevation: NA

RECOVERY (in/in.)	VAPORS (ppm)	PENETRATION (blows/ft.)	GROUND-WATER LEVEL	DEPTH (ft.)	SAMPLES	SOIL TYPE	DESCRIPTION
							0 - 2-INCHES: CONCRETE
				5			
				10			
24/24						ML	12 - 14 FT.: CLAYEY SILT (ML), BROWN, DAMP, NO ODOR.
				15			
24/24						ML/SP	17 - 19 FT.: SILT/SAND (ML/SP), BROWN, MOIST, NO ODOR.
				20			
				25			TOTAL DEPTH = 24 FT.

Remarks: BORING DRILLED WITH 1.5 - INCH DIRECT PUSH GEOPROBE SYSTEM. SAMPLES COLLECTED IN 1.25 BY 24 - INCH ACETATE LINER.

APPENDIX D

CERTIFIED ANALYTICAL REPORT AND CHAIN-OF-CUSTODY

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

ALLCAL Property Services 27973 High Country Drive Hayward, CA 94542-2530	Client Project ID: # 117042597; 14273 Washington Ave.	Date Sampled: 04/25/97
		Date Received: 04/28/97
	Client Contact: John Mrakovich	Date Extracted: 04/28-04/30/97
	Client P.O:	Date Analyzed: 04/28-04/30/97

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*
EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	MTBE	Benzene	Toluene	Ethylben-zene	Xylenes	% Rec. Surrogate
75914	SB-1-13-13.5	S	ND	ND	ND	ND	ND	ND	96
75915	SB-1-18-18.5	S	ND	ND	ND	ND	ND	ND	98
75916	SB-2-13-13.5	S	ND	ND	ND	ND	ND	ND	100
75917	SB-2-18-18.5	S	ND	ND	ND	ND	ND	ND	105
75918	SB-3-13-13.5	S	ND	ND	ND	ND	ND	ND	103
75919	SB-3-18-18.5	S	ND	ND	ND	ND	ND	ND	102
75920	SB-4-13-13.5	S	ND	ND	ND	ND	ND	ND	107
75921	SB-4-18-18.5	S	ND	ND	ND	ND	ND	ND	106
75922	SB-5-13-13.5	S	ND	ND	ND	ND	ND	ND	102
75923	SB-5-18-18.5	S	ND	ND	ND	ND	ND	ND	106
75924	SB-1	W	ND,i	ND	ND	ND	ND	0.77	102
75925	SB-2	W	ND,i	ND	ND	ND	ND	ND	100
75926	SB-3	W	ND	ND	ND	ND	ND	1.0	100
75927	SB-4	W	ND,i	ND	ND	ND	ND	0.63	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

ALLCAL Property Services 27973 High Country Drive Hayward, CA 94542-2530	Client Project ID: # 117042597; 14273 Washington Ave.	Date Sampled: 04/25/97
		Date Received: 04/28/97
	Client Contact: John Mrakovich	Date Extracted: 04/28-04/30/97
	Client P.O:	Date Analyzed: 04/28-04/30/97

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*
EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	MTBE	Benzene	Toluene	Ethylben-zene	Xylenes	% Rec. Surrogate
75928	SB-5	W	ND,i	ND	ND	ND	ND	ND	95
75929	Trip Blank	W	ND	ND	ND	ND	ND	ND	99
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

ALLCAL Property Services 27973 High Country Drive Hayward, CA 94542-2530	Client Project ID: # 117042597; 14273 Washington Ave.	Date Sampled: 04/25/97
		Date Received: 04/28/97
	Client Contact: John Mrakovich	Date Extracted: 04/28-04/30/97
	Client P.O:	Date Analyzed: 04/28-04/30/97

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)+	% Recovery Surrogate
75914	SB-1-13-13.5	S	ND	101
75915	SB-1-18-18.5	S	ND	101
75916	SB-2-13-13.5	S	ND	101
75917	SB-2-18-18.5	S	ND	101
75918	SB-3-13-13.5	S	ND	101
75919	SB-3-18-18.5	S	ND	101
75920	SB-4-13-13.5	S	ND	101
75921	SB-4-18-18.5	S	ND	101
75922	SB-5-13-13.5	S	ND	101
75923	SB-5-18-18.5	S	8.3,c	101
75924	SB-1	W	ND,i	102
75925	SB-2	W	90,b,i	106
75927	SB-4	W	510,a,i	103
75928	SB-5	W	2800,a,i	99
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	
		S	1.0 mg/kg	

* water samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP and STLC extracts in mg/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 04/28/97 Matrix: Water

Analyte	Concentration (mg/L) Sample (#75803)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	95.5	89.4	100.0	95.5	89.4	6.5
Benzene	0.0	8.8	8.6	10.0	88.0	86.0	2.3
Toluene	0.0	8.8	8.6	10.0	88.0	86.0	2.3
Ethyl Benzene	0.0	9.0	8.6	10.0	90.0	86.0	4.5
Xylenes	0.0	26.7	25.4	30.0	89.0	84.7	5.0
TPH (diesel)	0	136	137	150	91	91	0.6
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 04/30/97-05/01/97 Matrix: Water

Analyte	Concentration (mg/L) Sample (#75925)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.0	94.2	95.1	100.0	94.2	95.1	1.0
Benzene	0.0	8.4	8.6	10.0	84.0	86.0	2.4
Toluene	0.0	8.5	8.7	10.0	85.0	87.0	2.3
Ethyl Benzene	0.0	8.6	8.7	10.0	86.0	87.0	1.2
Xylenes	0.0	25.6	26.2	30.0	85.3	87.3	2.3
TPH (diesel)	0	138	141	150	92	94	2.3
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 04/28/97-04/29/97 Matrix: Soil

Analyte	Concentration (mg/kg) Sample (#74303)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.000	2.040	2.011	2.03	100	99	1.4
Benzene	0.000	0.204	0.200	0.2	102	100	2.0
Toluene	0.000	0.202	0.198	0.2	101	99	2.0
Ethylbenzene	0.000	0.196	0.196	0.2	98	98	0.0
Xylenes	0.000	0.564	0.574	0.6	94	96	1.8
TPH (diesel)	0	303	305	300	101	102	0.8
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 04/30/97 Matrix: Soil

Analyte	Concentration (mg/kg) Sample (#75403)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.000	2.060	2.084	2.03	101	103	1.2
Benzene	0.000	0.192	0.194	0.2	96	97	1.0
Toluene	0.000	0.198	0.200	0.2	99	100	1.0
Ethylbenzene	0.000	0.194	0.196	0.2	97	98	1.0
Xylenes	0.000	0.588	0.596	0.6	98	99	1.4
TPH (diesel)	0	336	327	300	112	109	2.6
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

ALLCAL PROPERTY SERVICES
ENVIRONMENTAL INVESTIGATIONS • HOME INSPECTIONS
27973 HIGH COUNTRY DRIVE FAX (510) 581-8490
HAYWARD, CA 94542-2530 Ph (510) 581-2320

LAB: McCAMPBELL
TURNAROUND: NORMAL
P.O. #: NA

CHAIN OF CUSTODY

PAGE 1 OF 2

8662 AAC 33

PROJECT NO.: 11704259.7
SITE NAME & ADDRESS: 14223 WASHINGTON AVENUE SAN LEANDRO, CA 94578
SAMPLER NAME, ADDRESS AND TELEPHONE NUMBER: JOHN MRAKOVICH

ID NO.	DATE	TIME	SOIL	WATER	SAMPLING LOCATION	(1) TYPE OF CONTAINER	TOTAL LIGHT HC	AROMATIC HC (BTX)	TOTAL HEAVY HC	OIL & GREASE	VOC SCAN (624's)	OTHER	MTBE
SB-1-13.0-13.5	4/25/97	8:27	X		SOIL BORING # 1	ACETATE LINER	X	X	X			X	
SB-1-18.0-18.5		8:45			↓								
SB-2-13.0-13.5		10:10			SOIL BORING # 2								
SB-2-18.0-18.5		10:25			↓								
SB-3-13.0-13.5		11:05			SOIL BORING # 3								
SB-3-18.0-18.5		11:15			↓								
SB-4-13.0-13.5		12:25			SOIL BORING # 4								
SB-4-18.0-18.5		12:40			↓								
SB-5-13.0-13.5	↓	1:10	↓		SOIL BORING # 5	↓	↓	↓	↓			↓	

REMARKS: 75914, 75915, 75916, 75917, 75918, 75919, 75920, 75921, 75922

Relinquished by : (Signature)	Date / Time	Received by : (Signature)	Relinquished by : (Signature)	Date / Time	Received by : (Signature)
J. Mrakovich	4/25/97 9:05	[illegible]			
[illegible]	4/25/97 1025	[illegible]			
		Received for Laboratory by: [Signature]	Date / Time: 4/26/97 10:25	Remarks	

DATE: _____

ICE/T ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓

PRESERVATIVE APPROPRIATE ✓ CONTAINERS ✓

VOAS	O&G	METALS	OTHER
✓			

ALLCAL PROPERTY SERVICES
ENVIRONMENTAL INVESTIGATIONS • HOME INSPECTIONS
27973 HIGH COUNTRY DRIVE FAX (510) 581-8490
HAYWARD, CA 94542-2530 Ph (510) 581-2320

LAB: McCAMPBELL

TURNAROUND: NORMAL

P.O. #: NA

CHAIN OF CUSTODY

8552 AAC33

PROJECT NO.: 117042597

SITE NAME & ADDRESS: 14273 WASHINGTON AVENUE SAN LEANDRO, CA

SAMPLER NAME, ADDRESS AND TELEPHONE NUMBER: JOHN MRAKOVICH

	ID NO.	DATE	TIME	SOIL	WATER	SAMPLING LOCATION	(1) TYPE OF CONTAINER	ANALYTES REQUESTED: TOTAL LIGHT HC	AROMATIC HC (BTEX)	TOTAL HEAVY HC	OIL & GREASE	VOC SCAN (624's)	OTHER (624's)	METRE	REMARKS
	SB-5 18.0-18.5	4/25/97	1:30	X		SOIL BORING #5	ACETATE LINER	X	X	X			X		
+5	SB-1		9:10		X	SOIL BORING #1	2-40ML 1-LITER								
5+	SB-2		11:20			SOIL BORING #2	2-40ML 1-LITER								
+2	SB-3		1:50			SOIL BORING #3	1-40ML								
5+	SB-4		2:30			SOIL BORING #4	2-40ML 1-LITER								
5+	SB-5		3:00			SOIL BORING #5	2-40ML 1-LITER								
✓	TRIP BLANK	4/25/97			X		2-40ML	X	X				X		

75923
75924
75925
75926
75927
75928
75929

Relinquished by : (Signature)	Date / Time	Received by : (Signature)	Relinquished by : (Signature)	Date / Time	Received by : (Signature)
J. Mrakovich	4/28/97 9:05				
	4/28/97 10:25				
		Received for Laboratory by: (Signature)	Date / Time: 4/28/97 10:25	Remarks	

VOA's O&G METALS OTHER

ICE/T° ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
PRESERVATIVE APPROPRIATE ✓
CONTAINERS ✓

DATE:

J. QUARLE & ASSOCIATES, INC.

2077 EDISON AVENUE · P.O. BOX 2215 · SAN LEANDRO, CALIFORNIA 94577-03402
TELEPHONE: (510) 430-2735 · FAX: (510) 430-2841

September, 1998

Vic Baldi
799 Fletcher Lane
Suite 204
Hayward, CA 94544

UNDERGROUND TANK REMOVAL
14273 WASHINGTON AVENUE, SAN LEANDRO

Dear Vic:

The purpose of this letter report is to document the removal of one 500-gallon waste oil tank at the subject site.

Activities began on August 29, 1998 with the breaking and removal of a concrete slab over the tank. The tank was excavated and removed from the property on August 31, 1998, under the direction of Carl Buche, City of San Leandro Fire Department, Hazardous Materials Division. Ecology Control Industries (ECI) transported the tank for recycling at their Richmond facility.

J. Quarle' & Associates personnel took one soil sample from 2 feet under the tank, per the direction of Mr. Buche. This sample was submitted to Priority Environmental Labs, tested for Gasoline/BTEX with MTBE, Oil, and Grease, Diesel, EPA 418.1 and EPA 8010 and CAM 17 metals.

Test results were faxed to this office and to Mr. Buche on September 9, 1998. Mr. Buche gave verbal authorization for the excavation to be backfilled and on September 10, this was done using four yards of base rock.

This project was completed on September 15, 1998, with the replacement of the concrete slab over the former tank site.

Attached are the test results, uniform waste manifest and recycling certificate for the tank.

Please give us a call if we can be of further service.

Sincerely,

J. QUARLE' & ASSOCIATES, INC.

Jack Quarle', President

JQ/cn

PRIORITY ENVIRONMENTAL LABS
Precision Environmental Analytical Laboratory

September 03, 1998 PEL # 9809002

JACK QUARLE & ASSOCIATES, INC.

Attn: Jack Quarle

Re: One soil sample for Gasoline/BTEX with MTBE, Diesel, and total Petroleum hydrocarbons analyses.

Project location: 14273 Washington ave. - San Leandro, CA.

Date sampled: Aug 31, 1998 Date submitted: Sep 01, 1998
Date extracted: Sep 01-03, 1998 Date analyzed: Sep 01-03, 1998

RESULTS:

SAMPLE I.D.	Gasoline (mg/Kg)	Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylene (ug/Kg)	TRPH (mg/Kg)
SLR 1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	81.6%	92.0%	88.4%	100.2%	86.8%	94.4%	---
Detection limit	1.0	1.0	5.0	5.0	5.0	5.0	10
Method of Analysis	5030 / 8015	3550 / 8015	8020	8020	8020	8020	418.1

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

September 03, 1998 PEL # 9809002

JACK QUARLE & ASSOCIATES

Attn: Jack Quarle

Project location: 14273 Washington ave. - San Leandro, CA.

Analysis : TTLC CAM 17 metals

Sample I.D.: SLR 1

Date Sampled: Aug 31, 1998 Date Submitted: Sep 01, 1998
Date Analyzed: Sep 01-03, 1998

Method of Analysis: EPA 6010

CODE	METAL	CONCENTRATION (mg/Kg)	DETECTION LIMIT (mg/Kg)
Ag	Silver	N.D.	0.05
As	Arsenic	N.D.	0.01
Ba	Barium	1.8	0.05
Be	Berryllium	N.D.	0.01
Cd	Cadmium	0.9	0.01
Co	Cobalt	N.D.	0.05
Cr	Chromium	3.2	0.05
Cu	Copper	3.1	0.05
Hg	Mercury	N.D.	0.002
Mo	Molybdenum	N.D.	0.05
Ni	Nickel	11	0.05
Pb	Lead	2.6	0.10
Sb	Antimony	N.D.	0.10
Se	Selenium	N.D.	0.01
Tl	Thallium	N.D.	0.20
V	Vanadium	N.D.	0.05
Zn	Zinc	18	0.05

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PRIORITY ENVIRONMENTAL LABS
Precision Environmental Analytical Laboratory

September 08, 1998 PEL # 9809002

JACK QUARLE & ASSOCIATES, INC. Attn: Jack Quarle

Project location: 14273 Washington ave.- San Leandro, CA.
Sample I.D.: SVC-1

Date Sampled: Aug 31, 1998 Date Submitted: Sep 01, 1998
Date Analyzed: Sep 04-05, 1998

Method of Analysis: EPA 8010 Detection limit: 5.0 ug/Kg

COMPOUND NAME	CONCENTRATION (ug/Kg)	SPIKE RECOVERY (%)
Chloromethane	N.D.	-----
Vinyl Chloride	N.D.	83.7
Bromomethane	N.D.	-----
Chloroethane	N.D.	-----
Trichlorofluoromethane	N.D.	-----
1,1-Dichloroethene	N.D.	-----
Methylene Chloride	N.D.	-----
1,2-Dichloroethene (TOTAL)	N.D.	90.9
1,1-Dichloroethane	N.D.	-----
Chloroform	N.D.	86.4
1,1,1-Trichloroethane	N.D.	-----
Carbon Tetrachloride	N.D.	-----
1,2-Dichloroethane	N.D.	-----
Trichloroethene	N.D.	99.5
1,2-Dichloropropane	N.D.	-----
Bromodichloromethane	N.D.	-----
2-Chloroethylvinylether	N.D.	-----
Trans-1,3-Dichloropropene	N.D.	-----
Cis-1,3-Dichloropropene	N.D.	-----
1,1,2-Trichloroethane	N.D.	-----
Tetrachloroethene	N.D.	86.1
Dibromochloromethane	N.D.	-----
Chlorobenzene	N.D.	-----
Bromoform	N.D.	-----
1,1,2,2-Tetrachloroethane	N.D.	-----
1,3-Dichlorobenzene	N.D.	-----
1,4-Dichlorobenzene	N.D.	-----
1,2-Dichlorobenzene	N.D.	-----

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Norman Herrold 510 4302735

Project Manager: Phone #:

Address: 14273 Washington Ave FAX #: 510 4302841

Project Number: San Leandro CA Project Name: Ed. Bentz

Project Location: San Leandro Sampler Signature: Norman Herrold

Sample ID	Lab # (Lab use only)	# CONTAINERS	Volume/Amount	Matrix: WATER	Matrix: SOIL	Matrix: AIR	Matrix: SLUDGE	Matrix: OTHER	Method Preserved: HCl	Method Preserved: HNO3	Method Preserved: ICE	Method Preserved: NONE	Method Preserved: OTHER	Sampling: DATE	Sampling: TIME	BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015 or 8270)	TPH as Jetfuel (8015 or 8270)	Total Oil & Grease (413.1)	Total Oil & Grease (413.2)	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080-PCBs Only	EPA 624/8240	EPA 625/8270	CAM - 17 Metals	EPTOX - 8 Metals	EPA - Priority Pollutant Metals	LEAD(7420/7421/239.2)	ORGANIC LEAD	MTBE	PRIORITY ONE SERVICE (24 hr)	EXPEDITED SERVICE (2-4 days)	VERBALS/FAX	SPECIAL DETECTION LIMITS (SPECIFY)	SPECIAL REPORTING REQUIREMENTS
SLR1					X						X			8/31/98	1 PM		X	X		X		X	X						X					X					

ANALYSIS REQUEST

OTHER

SPECIAL HANDLING

PEL # 9809002

INV # 28528

in Card
on 09/04/98
@ 1:30 PM

Relinquished by:	Date	Time	Received by:
Norman Herrold			
Relinquished by	Date	Time	Received by:
Relinquished by	Date	Time	Received by Laboratory: [signature] (P.E.L) 9-01-98 11:10 AM

Remarks:

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6974014

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
CAL000060805	01395		

3. Generator's Name and Mailing Address: Son Leandro Rental, 14273 Washington Ave. – San Leandro, Calif. 94577

4. Generator's Phone (510) 430-2735

A. State Manifest Document Number: 96734272

B. State Generator's ID:

5. Transporter 1 Company Name: DEXANNA

6. US EPA ID Number: CAD982438566

C. State Transporter's ID:

D. Transporter's Phone: (925) 687-1292

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: ERICKSON INC. 255 PARR BLVD RICHMOND, CA 94801

10. US EPA ID Number: CAD009466392

G. State Facility's ID: CAD009466392

H. Facility's Phone: 510-235-1393

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 Number
WASTE EMPTY STORAGE TANK Non-RCRA hazardous waste solid	001	TP	00530	P	State 512 EPA/Other NONE
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above

QTY. 1 EMPTY STORAGE TANK(S) # 23737

TANK(S) HAVE BEEN INERTED WITH 15 LBS DRY ICE PER 1000 GALLONS CAPACITY.

K. Handling Codes for Wastes Listed Above: a. 01 b. c. d.

15. Special Handling Instructions and Additional Information

Wear appropriate protective clothing when handling. SITE LOCATION: 14273 Washington Ave San Leandro, Calif.

24 Hour Emergency Telephone Number: (510) 430-2735

24 Hour Emergency Contact: Norman Herrold

ERG 171

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 government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name	Signature	Month	Day	Year
Norman Herrold	Norman Herrold	08	31	98

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
James R. Cox	James R. Cox	08	31	98

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

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.

Printed/Typed Name	Signature	Month	Day	Year
KAREN RUFFIN	Karen Ruffin	08	31	98

DO NOT WRITE BELOW THIS LINE.

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

96734272

DTSC 8022A (4/97)
EPA 8700—22

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
P.O. Box 3000, Sacramento, CA 95812

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 28875

CUSTOMER

JOB NO. 974014
J. QUARLE OR ASSOC.

FOR: ERICKSON, INC. TANK NO. 23737

LOCATION: RICHMOND, CA DATE: 9/12/98 TIME: 2:36:12 PM

TEST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT UO

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 550 GALLON TANK CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ERICKSON, INC. HERBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY.

ERICKSON, INC. HAS THE APROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

Patricia Collins — Dave Soto

REPRESENTATIVE TITLE INSPECTOR

CP5996

APPENDIX I

Photographic Log

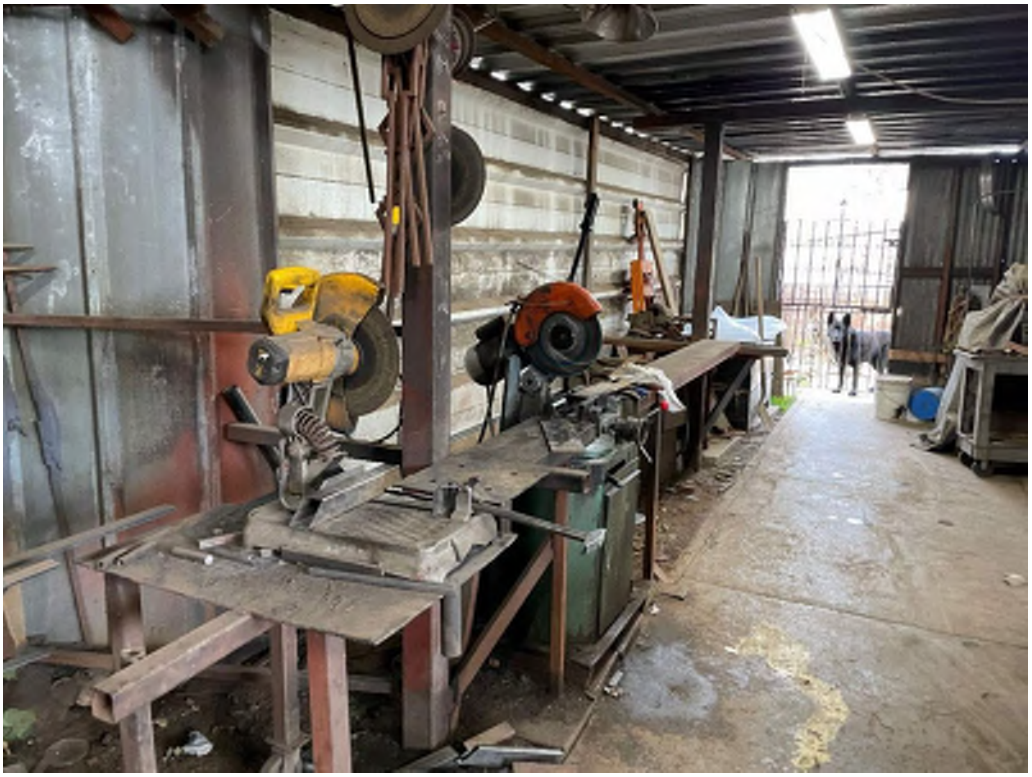
I-1. View of residence at 14143 Washington Avenue (Parcel 1) (02/09/2021).

I-2. Zermeno's Custom Ironworks at 14143-A Washington Avenue (02/09/2021).

I-3. Vehicle being worked on in the Zermeno's facility yard (02/09/2021).

I-4. Stock metal material and example of the simple metal structure that makes up the Zermeno's facility (02/09/2021).

I-5. Propane powered forklift in the Zermeno's facility (02/09/2021).



I-6. Work space of the Zermeno's facility (02/09/2021).

I-7. Empty canisters, tubing and propane tanks in the Zermeno's facility (02/09/2021).

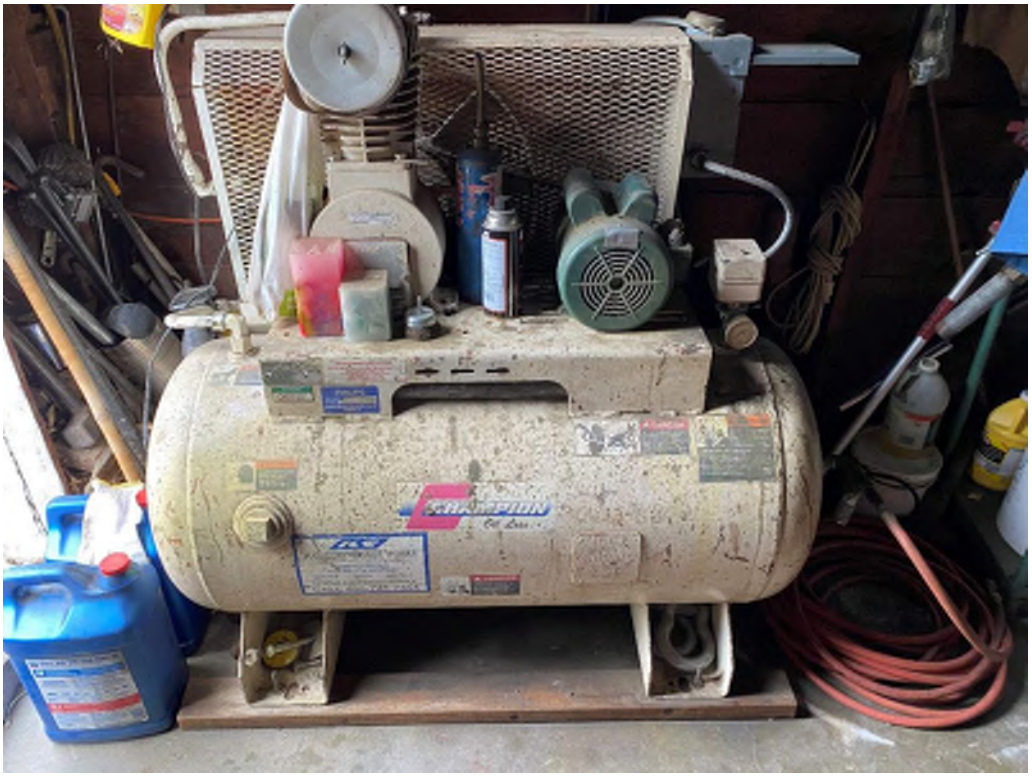
I-8. Production area with a metal fence in the Zermeno's facility (02/09/2021).

I-9. Storage unit with miscellaneous chemicals and stock metal at the Zermeno's facility (02/09/2021).

I-10. Several empty 55-gallon drums located at the back (west) end of Parcel 1 (02/09/2021).

I-11. Driveway of the residence at 14173 Washington Avenue, Parcel 2 (02/09/2021).

I-12. Backyard garage and trailer on Parcel 2 (02/09/2021).

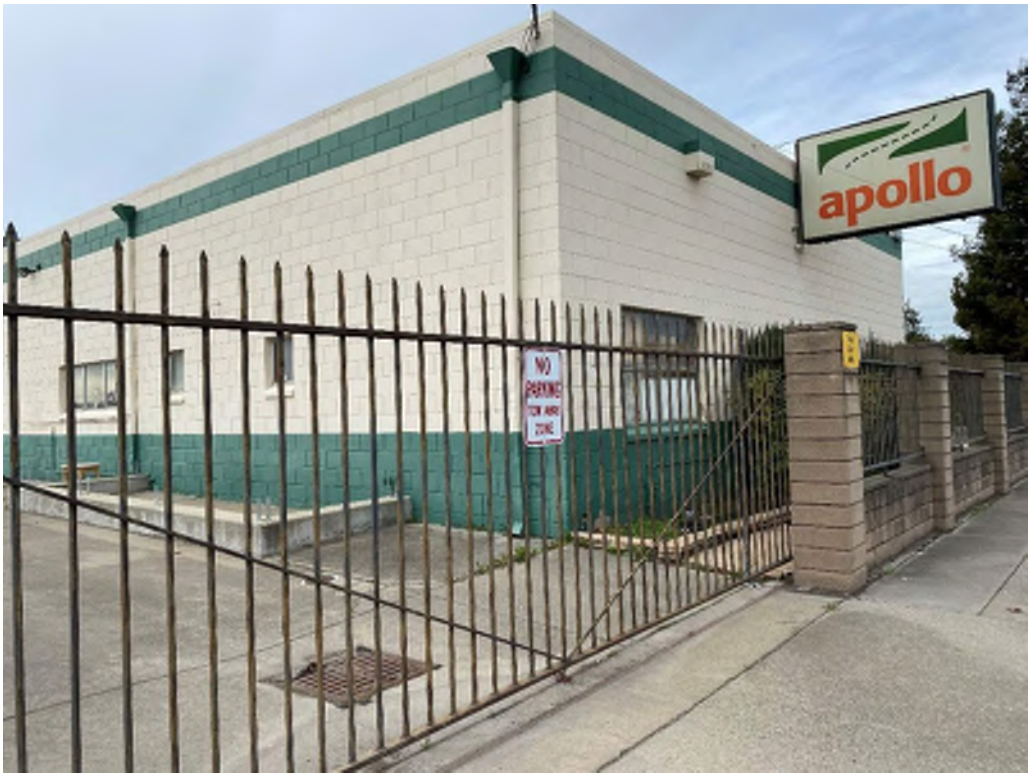


I-13. Air compressor in the garage space of Parcel 2 (02/09/2021).

I-14. Miscellaneous chemicals being stored in the garage on Parcel 2 (02/09/2021).

I-15. Inside the trailer located on Parcel 2 (02/09/2021).

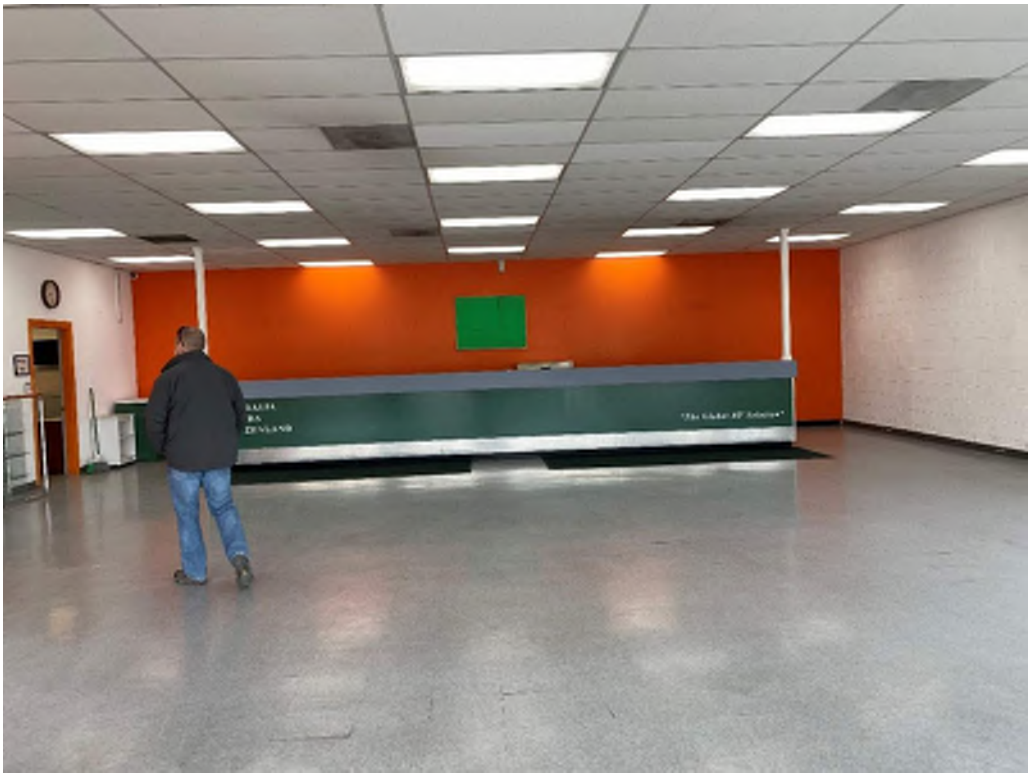
I-16. West portion of Parcel 2 looking east at the garage and residence (02/09/2021).



I-17. Southeast corner of Building A at 14273 Washington Avenue (02/09/2021).

I-18. Eastern half of Building A, which is garage space (02/09/2021).

I-19. Western half of Building A, which contains retail and office space. This awning once covered a fuel dispenser island (02/09/2021).



I-20. Reception area inside Building A (02/09/2021).

I-21. Inside the garage space of Building A (02/09/2021).

I-22. Inside the garage space of Building A. Concrete patch observed is reportedly the result of damage to the slab from former operations testing jack hammers (02/09/2021).

I-23. Compressor and electrical panels, including an Emergency Shut Off switch (02/09/2021).

I-24. Southern boundary of the Site behind Building A. Former location of Tank #4 (02/09/2021).

I-25. Concrete berms reportedly supported waste oil ASTs (02/09/2021).

I-26. Vault located behind Building A. Contents are unknown (02/09/2021).

I-27. Current 2,000-gallon split tank UST, now empty (02/09/2021).

I-28. View looking east, the 2,000-gallon AST and approximately 500-gallon propane AST are in view. (02/09/2021).

I-29. Building B, the wash pad for former RV tenant (02/09/2021).

I-30. Rear side of Building B, the oil-water separator is present in the fore-ground (02/09/2021).

I-31. Garbage enclosure located adjacent to the propane AST (02/09/2021).

I-32. Stormwater drains and electrical outlets located north of Building A (02/09/2021).

I-33. Asphalt patch area north of Building A (02/09/2021).

I-34. Depressed truck ramp located along the western boundary of the Site (02/09/2021).

I-35. Former material storage areas located along western boundary of Site (02/09/2021).

I-36. Former material storage areas located along western boundary of Site (02/09/2021).

I-37. View looking southeast at the Site (02/09/2021).

I-38. Asphalt patch area in the northern portion of the Site (02/09/2021).

I-39. View of Parcel 3, used as parking (02/09/2021).

I-40. Example of a drain outlet observed throughout the Site (02/09/2021).

I-41. View of adjacent property to the northeast (02/09/2021).

I-42. View of adjacent property to the north (02/09/2021).

I-43. View of adjacent property to the south (02/09/2021).

I-44. View of sidewalk along Washington Avenue, Parcel 1 on the right (02/09/2021).

I-45. View of at 14143 Washington Avenue (08/11/2021).

I-46. Driveway of the residence at 14173 Washington Avenue (08/11/2021).

I-47. Southeast corner of Building A at 14273 Washington Avenue (08/11/2021).

I-48. View looking west, the 2,000-gallon AST and approximately 500-gallon propane AST are in the rear left view. The rear side of Building B and the oil-water separator in the fore-ground are seen in the far right corner. (08/11/2021).

I-47. View looking west to the north of Building B (08/11 /2021).

Appendix I

Noise Impact Analysis Report

FIRSTCARBONSOLUTIONS™

Noise Impact Analysis Report
Washington Avenue Warehouse Project
City of San Leandro, Alameda County, California

Project Applicant:
First Industrial Realty Trust, Inc.
3620 Happy Valley Road, Suite 201
Lafayette, CA 94569

Contact: Richard Poolis, Director of Development

Prepared by:
FirstCarbon Solutions
2999 Oak Road, Suite 250
Walnut Creek, CA 94597
925.357.2562

Contact: Mary Bean, Project Director
Philip Ault, Director of Noise and Air Quality

Date: January 25, 2023

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ACRONYMS AND ABBREVIATIONS

ADT	Average Daily Traffic
CBC	California Building Standards Code
CEQA	California Environmental Quality Act
CNEL	Community Noise Equivalent Level
dB	decibel
dBA	A-weighted decibel
dBA/DD	A-weighted decibel per each doubling of the distance
DNL	Day-Night Level
EPA	United States Environmental Protection Agency
FCS	FirstCarbon Solutions
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
in/sec	inch per second
L_{dn}	day-night average sound level
L_{eq}	equivalent continuous sound level
L_{max}	maximum noise/sound level
PPV	peak particle velocity
rms	root mean square
VdB	vibration in decibels

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SECTION 1: INTRODUCTION

1.1 - Purpose of Analysis and Study Objectives

This Noise Impact Analysis Report has been prepared by FirstCarbon Solutions (FCS) to determine and document the off-site and on-site noise impacts associated with the proposed San Leandro Washington Avenue Warehouse Project (proposed project). The following is provided in this report:

- A description of the study area, project site, and proposed project.
- Information regarding the fundamentals of noise and vibration.
- A description of the local noise guidelines and standards.
- A description of the existing noise environment.
- An analysis of the potential short-term, construction-related noise and vibration impacts from the proposed project.
- An analysis of long-term, operations-related noise and vibration impacts from the proposed project.

1.2 - Project Summary

1.2.1 - Site Location

The 3.45-acre project site is located in the City of San Leandro (City), in Alameda County, California. The regional location map is shown in Exhibit 1. The project site is bounded by Washington Avenue to the east, 139th Avenue to the north, and railroad tracks to the south and west. As part of the proposed project, the existing three buildings at the site would be demolished and the existing debris would be removed from the site. (Note: since the following analysis was completed, the buildings were damaged in a fire and have been demolished. This does not change the conclusions of this report.) The local vicinity map is shown in Exhibit 2.

1.2.2 - Project Description

The project proposes to combine six parcels into one lot with a total area of 3.45 acres. The project applicant, First Industrial Realty Trust, Inc., proposes to develop a 52,269-square-foot building, which includes 5,000 square feet of office uses and 47,269 square feet of warehouse use on the project site. The proposed project would include 64 automobile parking stalls, five truck parking stalls, as well as 15 dock-high doors and two drive-in doors in the rear of the building. The site shall be fully landscaped and irrigated. The site would accommodate the required automobile and bike parking, trash enclosure, and off-street loading spaces in the truck court, which would be located on the south side of the property and secured with a fence and gate to allow for truck ingress/egress. The building would be constructed with concrete tilt walls and a hybrid roof deck for a Type III-B construction and fully sprinklered. Access to the project site consists of a proposed curb-cut at the northwest corner of the site to allow for automobile and fire truck ingress/egress, while truck access would be located on the northeast corner of the project site. The site plan is shown in Exhibit 3.

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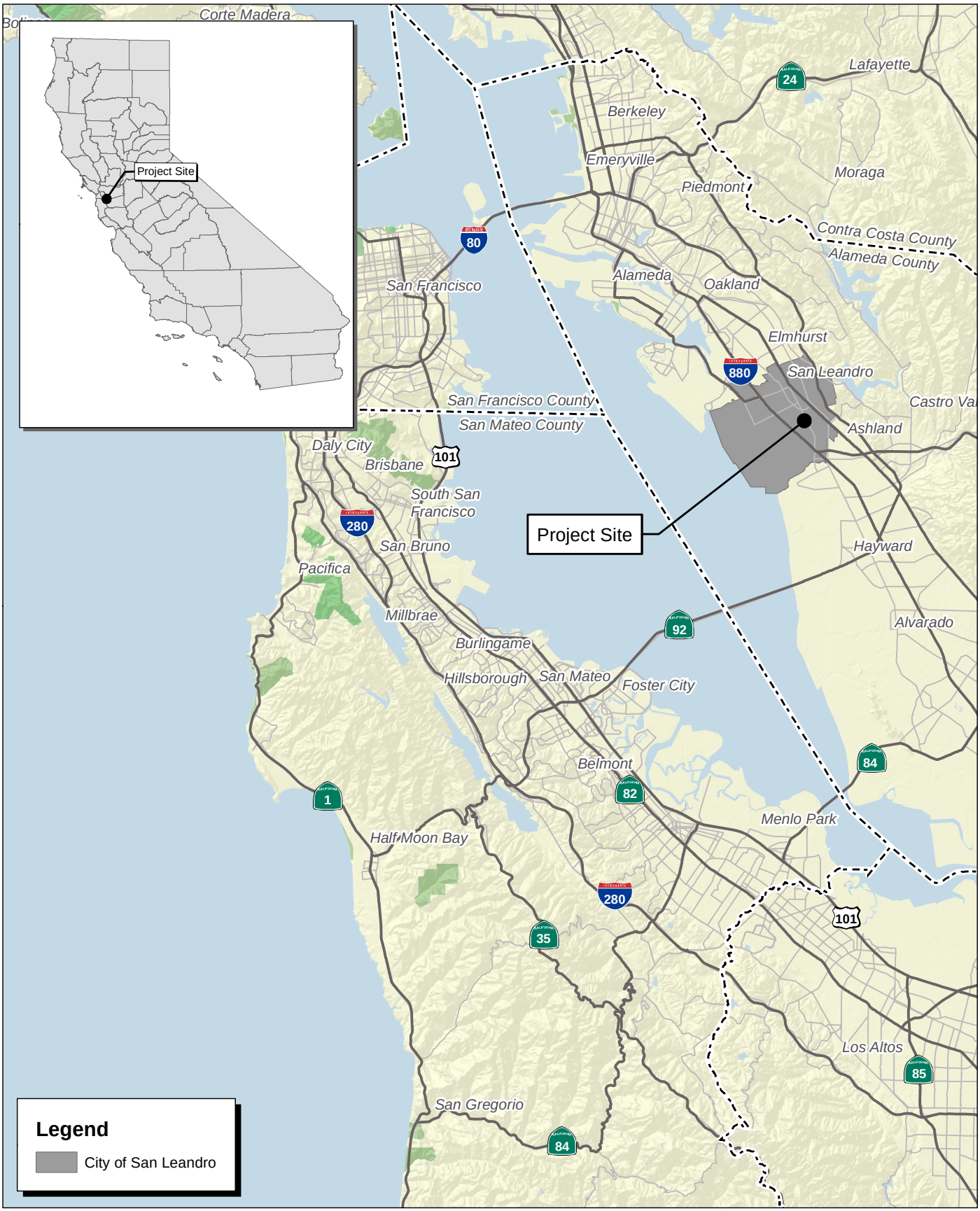

Source: Census 2000 Data, The California Spatial Information Library (CaSIL). Alameda County.

FIRSTCARBON SOLUTIONS™

5 2.5 0 5 Miles

Exhibit 1
Regional Location Map

41940003 • 05/2022 | 1_regional.mxd

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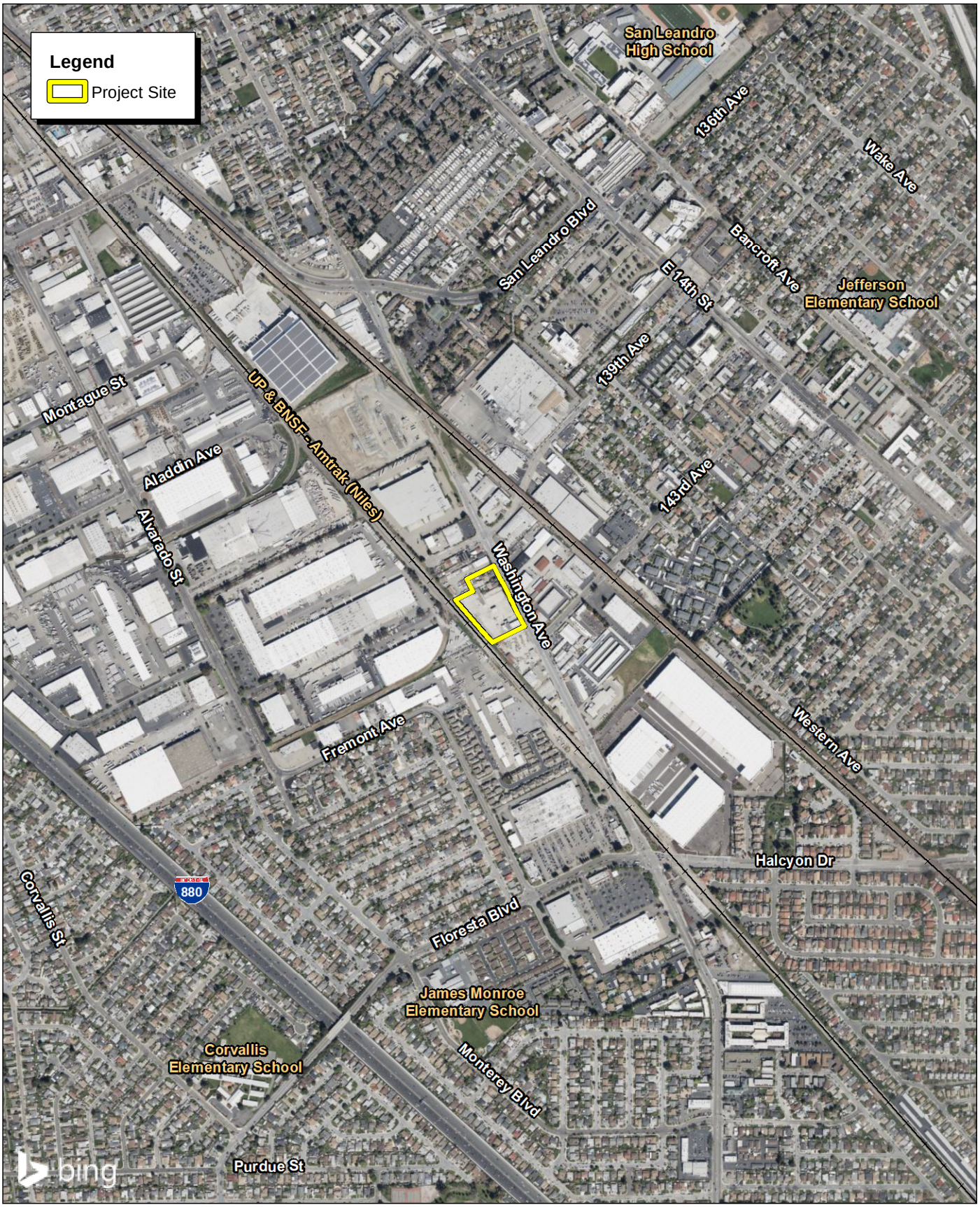

Source: Bing Aerial Imagery.

FIRSTCARBON SOLUTIONS™

1,000 500 0 1,000 Feet

Exhibit 2
Local Vicinity Map

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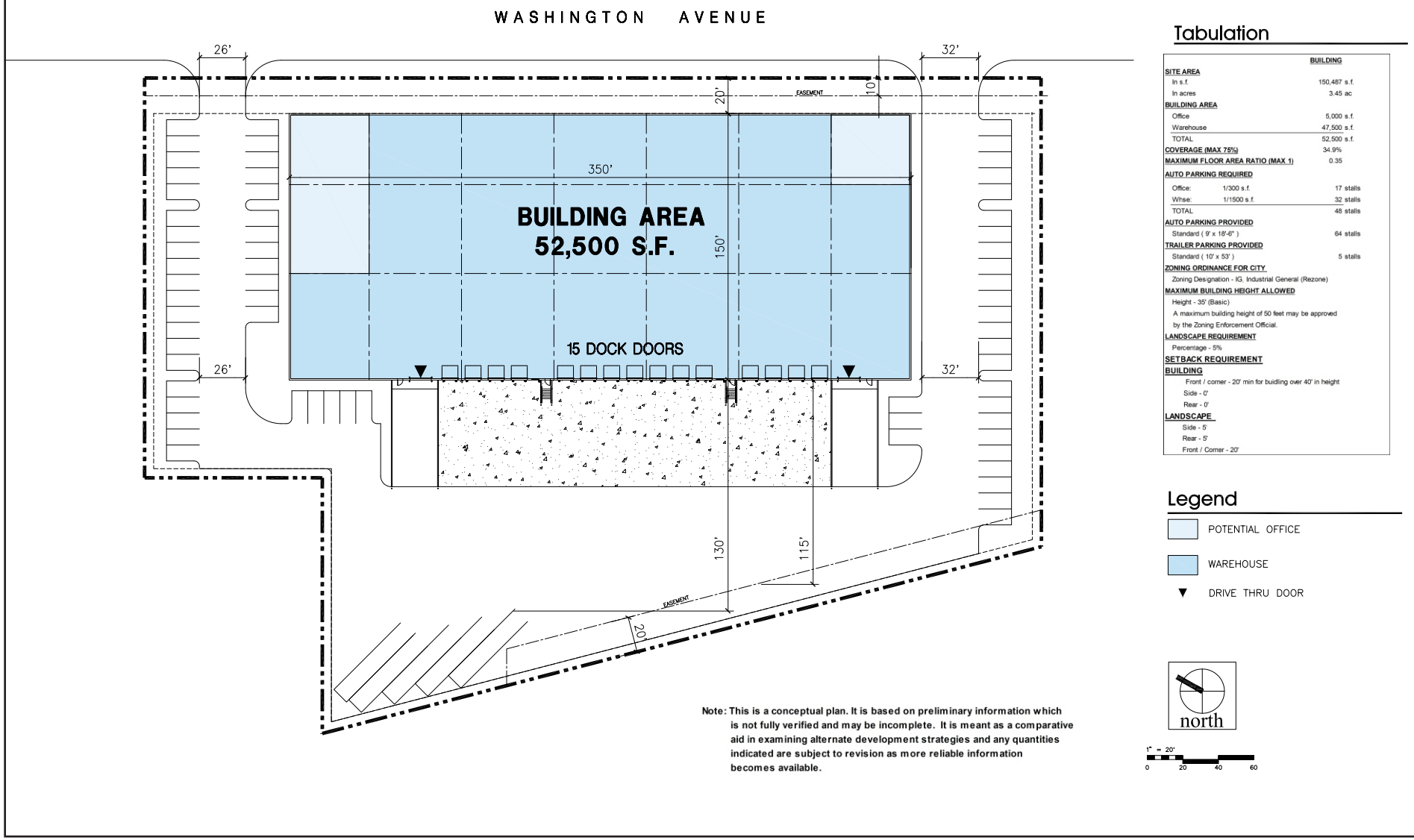

Tabulation

		BUILDING
SITE AREA		
In s.f.		150,487 s.f.
In acres		3.45 ac
BUILDING AREA		
Office		5,000 s.f.
Warehouse		47,500 s.f.
TOTAL		52,500 s.f.
COVERAGE (MAX 75%)		34.9%
MAXIMUM FLOOR AREA RATIO (MAX 1)		0.35
AUTO PARKING REQUIRED		
Office:	1/300 s.f.	17 stalls
Whse:	1/1500 s.f.	32 stalls
TOTAL		48 stalls
AUTO PARKING PROVIDED		
Standard (9' x 18'-6")		64 stalls
TRAILER PARKING PROVIDED		
Standard (10' x 53')		5 stalls
ZONING ORDINANCE FOR CITY		
Zoning Designation - IG, Industrial General (Rezone)		
MAXIMUM BUILDING HEIGHT ALLOWED		
Height - 35' (Basic)		
A maximum building height of 50 feet may be approved by the Zoning Enforcement Official.		
LANDSCAPE REQUIREMENT		
Percentage - 5%		
SETBACK REQUIREMENT		
BUILDING		
Front / corner - 20' min for buidling over 40' in height		
Side - 0'		
Rear - 0'		
LANDSCAPE		
Side - 5'		
Rear - 5'		
Front / Corner - 20'		

Legend

- POTENTIAL OFFICE
- WAREHOUSE
- ▼ DRIVE THRU DOOR

Source: HPA Architecture, March 11, 2021

FIRSTCARBON SOLUTIONS™

Exhibit 3
Site Plan

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SECTION 2: NOISE AND VIBRATION FUNDAMENTALS

2.1 - Characteristics of Noise

Noise is generally defined as unwanted or objectionable sound. Sound becomes unwanted when it interferes with normal activities, when it causes actual physical harm, or when it has adverse effects on health. The effects of noise on people can include general annoyance, interference with speech communication, sleep disturbance, and in the extreme, hearing impairment. Noise effects can be caused by pitch or loudness. *Pitch* is the number of complete vibrations or cycles per second of a wave that result in the range of tone from high to low; higher-pitched sounds are louder to humans than lower-pitched sounds. *Loudness* is the intensity or amplitude of sound.

Sound is produced by the vibration of sound pressure waves in the air. Sound pressure levels are used to measure the intensity of sound and are described in terms of decibels. The decibel (dB) is a logarithmic unit, which expresses the ratio of the sound pressure level being measured to a standard reference level. The 0 point on the dB scale is based on the lowest sound level that the healthy, unimpaired human ear can detect. Changes of 3 dB or less are only perceptible in laboratory environments. Audible increases in noise levels generally refer to a change of 3 dB or more, as this level has been found to be barely perceptible to the human ear in outdoor environments. Only audible changes in existing ambient or background noise levels are considered potentially significant.

The human ear is not equally sensitive to all frequencies within the audible sound spectrum, so sound pressure level measurements can be weighted to better represent frequency-based sensitivity of average healthy human hearing. One such specific “filtering” of sound is called “A-weighting.” A-weighted decibels (dBA) approximate the subjective response of the human ear to a broad frequency noise source by discriminating against very low and very high frequencies of the audible spectrum. They are adjusted to reflect only those frequencies that are audible to the human ear. Because decibels are logarithmic units, they cannot be added or subtracted by ordinary arithmetic means. For example, if one noise source produces a noise level of 70 dB, the addition of another noise source with the same noise level would not produce 140 dB; rather, they would combine to produce a noise level of 73 dB.

As noise spreads from a source, it loses energy so that the farther away the noise receiver is from the noise source, the lower the perceived noise level. Noise levels diminish or attenuate as distance from the source increases based on an inverse square rule, depending on how the noise source is physically configured. Noise levels from a single-point source, such as a single piece of construction equipment at ground level, attenuate at a rate of 6 dB for each doubling of distance (between the single-point source of noise and the noise-sensitive receptor of concern). Heavily traveled roads with few gaps in traffic behave as continuous line sources and attenuate roughly at a rate of 3 dB per doubling of distance.

2.1.1 - Noise Descriptors

There are many ways to rate noise for various time periods, but an appropriate rating of ambient noise affecting humans also accounts for the annoying effects of sound. Equivalent continuous sound level (L_{eq}) is the total sound energy of time-varying noise over a sample period. However, the predominant rating scales for human communities in the State of California are the L_{eq} and Community Noise Equivalent Level (CNEL) or the day-night average level (L_{dn}) based on dBA. CNEL is the time-varying noise over a 24-hour period, with a 5 dBA weighting factor applied to the hourly L_{eq} for noises occurring from 7:00 p.m. to 10:00 p.m. (defined as relaxation hours) and a 10 dBA weighting factor applied to noise occurring from 10:00 p.m. to 7:00 a.m. (defined as sleeping hours). L_{dn} is similar to the CNEL scale but without the adjustment for events occurring during the evening hours. CNEL and L_{dn} are within 1 dBA of each other and are normally exchangeable. The noise adjustments are added to the noise events occurring during the more sensitive hours.

Other noise rating scales of importance when assessing the annoyance factor include the maximum noise level (L_{max}), which is the highest exponential time-averaged sound level that occurs during a stated time period. The noise environments discussed in this analysis are specified in terms of maximum levels denoted by L_{max} for short-term noise impacts. L_{max} reflects peak operating conditions and addresses the annoying aspects of intermittent noise.

2.1.2 - Noise Propagation

From the noise source to the receiver, noise changes both in level and frequency spectrum. The most obvious is the decrease in noise as the distance from the source increases. The manner in which noise reduces with distance depends on whether the source is a point or line source, as well as ground absorption, atmospheric conditions (wind, temperature gradients, and humidity) and refraction, and shielding by natural and manmade features. Sound from point sources, such as an air conditioning condenser, a piece of construction equipment, or an idling truck, radiates uniformly outward as it travels away from the source in a spherical pattern.

The attenuation or sound drop-off rate is dependent on the conditions of the land between the noise source and receiver. To account for this ground-effect attenuation (absorption), two types of site conditions are commonly used in noise models: soft-site and hard-site conditions. Soft-site conditions account for the sound propagation loss over natural surfaces such as normal earth and ground vegetation. For point sources, a drop-off rate of 7.5 dBA per each doubling of the distance (dBA/DD) is typically observed over soft ground with landscaping, as compared with a 6 dBA/DD drop-off rate over hard ground such as asphalt, concrete, stone, and very hard packed earth. For line sources, such as traffic noise on a roadway, a 4.5 dBA/DD is typically observed for soft-site conditions compared to the 3 dBA/DD drop-off rate for hard-site conditions. Table 1 briefly defines these measurement descriptors and other sound terminology used in this section.

Table 1: Sound Terminology

Term	Definition
Sound	A vibratory disturbance created by a vibrating object which, when transmitted by pressure waves through a medium such as air, can be detected by a receiving mechanism such as the human ear or a microphone.
Noise	Sound that is loud, unpleasant, unexpected, or otherwise undesirable.
Ambient Noise	The composite of noise from all sources near and far in a given environment.
Decibel (dB)	A unitless measure of sound on a logarithmic scale, which represents the squared ratio of sound pressure amplitude to a reference sound pressure. The reference pressure is 20 micropascals, representing the threshold of human hearing (0 dB).
A-Weighted Decibel (dBA)	An overall frequency-weighted sound level that approximates the frequency response of the human ear.
Equivalent Noise Level (L_{eq})	The average sound energy occurring over a specified time period. In effect, L_{eq} is the steady-state sound level that in a stated period would contain the same acoustical energy as the time-varying sound that actually occurs during the same period.
Maximum and Minimum Noise Levels (L_{max} and L_{min})	The maximum or minimum instantaneous sound level measured during a measurement period.
Day-Night Level (DNL or L_{dn})	The energy average of the A-weighted sound levels occurring during a 24-hour period, with 10 dB added to the A-weighted sound levels occurring between 10:00 p.m. and 7:00 a.m. (nighttime).
Community Noise Equivalent Level (CNEL)	The energy average of the A-weighted sound levels occurring during a 24-hour period, with 5 dB added to the A-weighted sound levels occurring between 7:00 p.m. and 10:00 p.m. and 10 dB added to the A-weighted sound levels occurring between 10:00 p.m. and 7:00 a.m.
Source: Compiled by FirstCarbon Solutions (FCS) 2022.	

2.1.3 - Traffic Noise

The level of traffic noise depends on the three primary factors: (1) the volume of the traffic, (2) the speed of the traffic, and (3) the number of trucks in the flow of traffic. Generally, the loudness of traffic noise is increased by heavier traffic volumes, higher speeds, and greater number of trucks. Vehicle noise is a combination of the noise produced by the engine, exhaust, and tires. Because of the logarithmic nature of noise levels, a doubling of the traffic volume (assuming that the speed and truck mix do not change) results in a noise level increase of 3 dBA. Based on the Federal Highway

Administration (FHWA) community noise assessment criteria, this change is "barely perceptible." For reference, a doubling of perceived noise levels would require an increase of approximately 10 dBA. The truck mix on a given roadway also has an effect on community noise levels. As the number of heavy trucks increases and becomes a larger percentage of the vehicle mix, adjacent noise levels increase.

2.1.4 - Stationary Noise

A stationary noise producer is any entity in a fixed location that emits noise. Examples of stationary noise sources include machinery, engines, energy production, and other mechanical or powered equipment and activities such as loading and unloading or public assembly that may occur at commercial, industrial, manufacturing, or institutional facilities. Furthermore, while noise generated by the use of motor vehicles over public roads is preempted from local regulation, the use of these vehicles is considered a stationary noise source when operated on private property such as at a construction-site, a truck terminal, or warehousing facility.

The effects of stationary noise depend on factors such as characteristics of the equipment and operations, distance and pathway between the generator and receptor, and weather. Stationary noise sources may be regulated at the point of manufacture (e.g., equipment or engines), with limitations on the hours of operation, or with provision of intervening structures, barriers, or topography.

Construction activities are a common source of stationary noise. Construction-period noise levels are higher than background ambient noise levels but eventually cease once construction is complete. Construction is performed in discrete steps, each of which has its own mix of equipment and, consequently, its own noise characteristics. These various sequential phases would change the character of the noise generated on each construction-site and, therefore, would change the noise levels as construction progresses. Despite the variety in the type and size of construction equipment, similarities in the dominant noise sources and patterns of operation allow construction-related noise ranges to be categorized by work phase. Table 2 shows typical noise levels of construction equipment as measured at a distance of 50 feet from the operating equipment.

Table 2: Typical Construction Equipment Maximum Noise Levels, L_{max}

Type of Equipment	Impact Device? (Yes/No)	Specification Maximum Sound Levels for Analysis (dBA at 50 feet)
Impact Pile Driver	Yes	95
Auger Drill Rig	No	85
Vibratory Pile Driver	No	95
Jackhammers	Yes	85
Pneumatic Tools	No	85
Pumps	No	77
Scrapers	No	85
Cranes	No	85
Portable Generators	No	82

Type of Equipment	Impact Device? (Yes/No)	Specification Maximum Sound Levels for Analysis (dBA at 50 feet)
Rollers	No	85
Bulldozers	No	85
Tractors	No	84
Front-End Loaders	No	80
Backhoe	No	80
Excavators	No	85
Graders	No	85
Air Compressors	No	80
Dump Truck	No	84
Concrete Mixer Truck	No	85
Pickup Truck	No	55

Notes:
dBA = A-weighted decibel
Source: Federal Highway Administration (FHWA). 2006. Highway Construction Noise Handbook. August.

2.1.5 - Noise from Multiple Sources

Because sound pressure levels in decibels are based on a logarithmic scale, they cannot be added or subtracted in the usual arithmetical way. Therefore, sound pressure levels in decibels are logarithmically added on an energy summation basis. In other words, adding a new noise source to an existing noise source, both producing noise at the same level, will not double the noise level. Instead, if the difference between two noise sources is 10 dBA or more, the louder noise source will dominate, and the resultant noise level will be equal to the noise level of the louder source. In general, if the difference between two noise sources is 0–1 dBA, the resultant noise level will be 3 dBA higher than the louder noise source, or both sources if they are equal. If the difference between two noise sources is 2–3 dBA, the resultant noise level will be 2 dBA above the louder noise source. If the difference between two noise sources is 4–10 dBA, the resultant noise level will be 1 dBA higher than the louder noise source.

2.2 - Characteristics of Groundborne Vibration and Noise

Groundborne vibration consists of rapidly fluctuating motion through a solid medium, specifically the ground, which has an average motion of zero and in which the motion's amplitude can be described in terms of displacement, velocity, or acceleration. The effects of groundborne vibration typically only causes a nuisance to people, but in extreme cases, excessive groundborne vibration has the potential to cause structural damage to buildings. Although groundborne vibration can be felt outdoors, it is typically only an annoyance to people indoors where the associated effects of the shaking of a building can be notable. Groundborne noise is an effect of groundborne vibration and only exists indoors, since it is produced from noise radiated from the motion of the walls and floors of a room and may also consist of the rattling of windows or dishes on shelves.

Several different methods are used to quantify vibration amplitude such as the maximum instantaneous peak in the vibrations velocity, which is known as the peak particle velocity (PPV) or the root mean square (rms) amplitude of the vibration velocity. Because of the typically small amplitudes of vibrations, vibration velocity is often expressed in decibels–denoted as LV–and is based on the reference quantity of 1 microinch per second. To distinguish these vibration levels referenced in decibels from noise levels referenced in decibels, the unit is written as "VdB."

Although groundborne vibration can be felt outdoors, it is typically only an annoyance to people indoors where the associated effects of the shaking of a building can be notable. When assessing annoyance from groundborne vibration, vibration is typically expressed as rms velocity in units of decibels of 1 microinch per second, with the unit written in VdB. Typically, developed areas are continuously affected by vibration velocities of 50 VdB or lower. Human perception to vibration starts at levels as low as 67 VdB. Annoyance due to vibration in residential settings starts at approximately 70 VdB.

Off-site sources that may produce perceptible vibrations are usually caused by construction equipment, steel-wheeled trains, and traffic on rough roads, while smooth roads rarely produce perceptible groundborne noise or vibration. Construction activities, such as blasting, pile driving and operating heavy earthmoving equipment, are common sources of groundborne vibration. Construction vibration impacts on building structures are generally assessed in terms of PPV. Typical vibration source levels from construction equipment are shown in Table 3.

Table 3: Vibration Levels of Construction Equipment

Construction Equipment	PPV at 25 Feet (inches/second)	rms VdB at 25 Feet
Water Trucks	0.001	57
Scraper	0.002	58
Bulldozer—Small	0.003	58
Jackhammer	0.035	79
Concrete Mixer	0.046	81
Concrete Pump	0.046	81
Paver	0.046	81
Pickup Truck	0.046	81
Auger Drill Rig	0.051	82
Backhoe	0.051	82
Crane (Mobile)	0.051	82
Excavator	0.051	82
Grader	0.051	82
Loader	0.051	82

Construction Equipment	PPV at 25 Feet (inches/second)	rms VdB at 25 Feet
Loaded Trucks	0.076	86
Bulldozer—Large	0.089	87
Caisson drilling	0.089	87
Vibratory Roller—Small	0.101	88
Compactor	0.138	90
Clam shovel drop	0.202	94
Vibratory Roller—Large	0.210	94
Pile Driver (impact-typical)	0.644	104
Pile Driver (impact-upper range)	1.518	112

Notes:
PPV = peak particle velocity
rms = root mean square
VdB = vibration in decibels
Source: Compilation of scientific and academic literature, generated by the Federal Transit Administration (FTA) and Federal Highway Administration (FHWA).

The propagation of groundborne vibration is not as simple to model as airborne noise. This is because noise in the air travels through a relatively uniform medium, while groundborne vibrations travel through the earth, which may contain significant geological differences. Factors that influence groundborne vibration include:

- **Vibration source:** Type of activity or equipment, such as impact or mobile, and depth of vibration source;
- **Vibration path:** Soil type, rock layers, soil layering, depth to water table, and frost depth; and
- **Vibration receiver:** Foundation type, building construction, and acoustical absorption.

Among these factors that influence groundborne vibration, there are significant differences in the vibration characteristics when the source is underground compared to at the ground surface. In addition, soil conditions are known to have a strong influence on the levels of groundborne vibration. Among the most important factors are the stiffness and internal damping of the soil and the depth to bedrock. Vibration propagation is more efficient in stiff clay soils than in loose sandy soils, and shallow rock seems to concentrate the vibration energy close to the surface and can result in groundborne vibration problems at large distance from the source. Factors such as layering of the soil and depth to the water table can have significant effects on the propagation of groundborne vibration. Soft, loose, sandy soils tend to attenuate more vibration energy than hard, rocky materials. Vibration propagation through groundwater is more efficient than through sandy soils. There are three main types of vibration propagation: surface, compression, and shear waves. Surface waves, or Rayleigh waves, travel along the ground's surface. These waves carry most of their energy along an expanding circular wave front, similar to ripples produced by throwing a rock into a pool of water. P-

waves, or compression waves, are body waves that carry their energy along an expanding spherical wave front. The particle motion in these waves is longitudinal (i.e., in a "push-pull" fashion). P-waves are analogous to airborne sound waves. S-waves, or shear waves, are also body waves that carry energy along an expanding spherical wave front. However, unlike P-waves, the particle motion is transverse, or side-to-side and perpendicular to the direction of propagation.

As vibration waves propagate from a source, the vibration energy decreases in a logarithmic nature and the vibration levels typically decrease by 6 VdB per doubling of the distance from the vibration source. As stated above, this drop-off rate can vary greatly depending on the soil type, but it has been shown to be effective enough for screening purposes, in order to identify potential vibration impacts that may need to be studied through actual field tests. The vibration level (calculated below as PPV) at a distance from a point source can generally be calculated using the vibration reference equation:

$$PPV = PPV_{ref} * (25/D)^n \text{ (in/sec)}$$

Where:

PPV_{ref} = reference measurement at 25 feet from vibration source
D = distance from equipment to property line
n = vibration attenuation rate through ground

According to Section 7 of the Federal Transit Administration (FTA) Transit Noise and Vibration Impact Assessment Manual, an "n" value of 1.5 is recommended to calculate vibration propagation through typical soil conditions.[1]

[1] Federal Transit Administration (FTA). 2018. Transit Noise and Vibration Impact Assessment Manual. September.

SECTION 3: REGULATORY SETTING

3.1 - Federal Regulations

3.1.1 - United States Environmental Protection Agency

In 1972, Congress enacted the Noise Control Act. This Act authorized the United States Environmental Protection Agency (EPA) to publish descriptive data on the effects of noise and establish levels of sound "requisite to protect the public welfare with an adequate margin of safety." These levels are separated into health (hearing loss levels) and welfare (annoyance levels) categories, as shown in Table 4. The EPA cautions that these identified levels are not standards because they do not take into account the cost or feasibility of the levels.

For protection against hearing loss, 96 percent of the population would be protected if sound levels are less than or equal to an $L_{eq(24)}$ of 70 dBA. The EPA activity and interference guidelines are designed to ensure reliable speech communication at about 5 feet in the outdoor environment. For outdoor and indoor environments, interference with activity and annoyance should not occur if levels are below 55 dBA and 45 dBA, respectively.

Table 4: Summary of EPA Recommended Noise Levels to Protect Public Welfare

Effect	Level	Area
Hearing loss	$L_{eq}(_{24}) \leq$ 70 dB	All areas.
Outdoor activity interference and annoyance	$L_{dn} \leq$ 55 dB	Outdoors in residential areas, farms, and other outdoor areas where people spend widely varying amounts of time and other places in which quiet is a basis for use.
	$L_{eq}(_{24}) \leq$ 55 dB	Outdoor areas where people spend limited amounts of time, such as school yards, playgrounds, etc.
Indoor activity interference and annoyance	$L_{eq} \leq$ 45 dB	Indoor residential areas.
	$L_{eq}(_{24}) \leq$ 45 dB	Other indoor areas with human activities such as schools, etc.

Notes:
dB = decibel
L_{dn} = day/night average sound level
L_{eq} = equivalent continuous sound level
(24) signifies an L_{eq} duration of 24 hours.
Source: United States Environmental Protection Agency (EPA). 1978. Protective Noise Levels, EPA 550/9-79-100. November.

3.1.2 - Federal Transit Administration

The FTA has established industry accepted standards for vibration impact criteria and impact assessment. These guidelines are published in its Transit Noise and Vibration Impact Assessment Manual.[2]

The FTA guidelines include thresholds for construction vibration impacts for various structural categories as shown in Table 5.

Table 5: Federal Transit Administration Construction Vibration Impact Criteria

Building Category	PPV (in/sec)	Approximate VdB
I. Reinforced—Concrete, Steel or Timber (no plaster)	0.5	102
II. Engineered Concrete and Masonry (no plaster)	0.3	98
III. Non-engineered Timber and Masonry Buildings	0.2	94
IV. Buildings Extremely Susceptible to Vibration Damage	0.12	90

Notes:
PPV = peak particle velocity
VdB = vibration measured as rms velocity in decibels of 1 microinch per second
Source: Federal Transit Administration (FTA). 2018. Transit Noise and Vibration Impact Assessment Manual. September.

3.2 - State Regulations

The State of California has established regulations that help prevent adverse impacts to occupants of buildings located near noise sources. Referred to as the "State Noise Insulation Standard," it requires buildings to meet performance standards through design and/or building materials that would offset any noise source in the vicinity of the receptor. State regulations include requirements for the construction of new hotels, motels, apartment houses, and dwellings other than detached single-family dwellings that are intended to limit the extent of noise transmitted into habitable spaces. These requirements are found in the California Code of Regulations, Title 24 (known as the Building Standards Administrative Code), Part 2 (known as the California Building Standards Code [CBC]), Appendix Chapters 12 and 12A. For limiting noise transmitted between adjacent dwelling units, the noise insulation standards specify the extent to which walls, doors, and floor-ceiling assemblies must block or absorb sound. For limiting noise from exterior noise sources, the noise insulation standards set an interior standard of 45 dBA CNEL in any habitable room with all doors and windows closed. In addition, the standards require preparation of an acoustical analysis demonstrating the manner in which dwelling units have been designed to meet this interior standard, where such units are proposed in an area with exterior noise levels greater than 60 dBA CNEL.

The proposed project does not include any type of residential development. Therefore, these standards are not applicable to the proposed project. However, the State has established land use compatibility guidelines for determining acceptable noise levels for specified land uses, including

[2] Federal Transit Administration (FTA). 2018. Transit Noise and Vibration Impact Assessment Manual. September.

industrial type land uses such as the proposed project, which the City has adopted as described below.

3.3 - Local Regulations

The City of San Leandro addresses noise in the Noise Element of its General Plan.[3]

City of San Leandro General Plan

The City of San Leandro adopted its General Plan in September of 2016. The General Plan Noise Element serves as a guideline for compliance with the State's Noise Insulation Standards, with the objective being to minimize the exposure of community residents to excessive noise.

The City of San Leandro has adopted land use compatibility guidelines, as shown in Chart 7-2 of the General Plan. The City has designated the land use for the project site as Industrial (IND), therefore the land use category that applies to the proposed project is industrial, manufacturing, utilities, and agriculture. Under this designation, noise environments with ambient noise levels up to 75 dBA CNEL are considered "normally acceptable." Noise environments with ambient noise levels from 70 dBA to 80 dBA CNEL are considered "conditionally acceptable" for this type of land use; however, under this circumstance, new construction or development should be undertaken only after a detailed analysis of the noise reduction requirement is made and needed noise insulation features included in the design.

The City's Noise Element contains the following policies that are applicable to the proposed project:

Policy EH-7.4 Degradation of Ambient Noise Levels. If a neighborhood is well within acceptable noise standards, do not automatically allow noise levels to degrade to the maximum tolerable levels shown in Chart 7-2. A project's noise impacts should be evaluated based on the potential for adverse community response, as well as its conformance to the adopted standards. For the California Environmental Quality Act (CEQA) purposes, an increase of 3 dB L_{dn} should generally be considered a significant adverse impact.

Policy EH-7.9 Vibration Impacts. Limit the potential for vibration impacts from construction and ongoing operations to disturb sensitive uses such as housing and schools.

Policy EH-8.7 Sound Wall Design. Where sound walls are used, encourage aesthetically pleasing and innovative designs and require citizen input in the siting and design process. Require future sound wall engineering and acoustical design studies to address and mitigate the potential for displacement of sound from impacted properties to other properties further away from the noise source.

[3] City of San Leandro.2016. City of San Leandro 2035 General Plan. Noise Element. Website: https://www.sanleandro.org/332/General-Plan#:~:text=The%20City%20of%20San%20Leandro,period%20from%202015%20through%202035. Accessed April 11, 2022.

City of San Leandro Municipal Code

The City of San Leandro's Municipal Code[4] has established limits on permissible hours of construction for any construction work or related activity adjacent to or across a street of right-of-way from residential use, except between the hours of 7:00 a.m. to 7:00 p.m., Monday through Friday, and 8:00 a.m. to 7:00 p.m. on Saturday and Sunday, and no construction is permitted on federal holidays. Upon approval, a permit will otherwise allow an exception as stated in the Noise Element of the City of San Leandro's Municipal Code 4-1-1125, Exceptions.

[4] City of San Leandro. 2021. San Leandro Municipal Code, Article 11 Noise. Website: https://library.qcode.us/lib/san_leandro_ca/pub/municipal_code/item/title_4-chapter_4_1-article_11?view=all#title_4-chapter_4_1-article_11-4_1_1100. Accessed April 11, 2022.

SECTION 4: EXISTING NOISE CONDITIONS

The proposed project site is located within the City of San Leandro, in Alameda County, California. Surrounding the project site are industrial transition land uses to the north, public/institutional land uses to the west across the railroad tracks, industrial transition land uses to the south, and industrial transition land uses to the east. The dominant noise source in the project vicinity is noise from traffic on local roadways and railroad noise adjacent to the project site.

Railroad Noise

The three Union Pacific Railroad corridors that cross San Leandro also affect adjacent uses. Data from the Federal Railroad Administration indicates that more than 50 trains a day pass through the City. Passing trains are among the loudest noise sources in the City, ranging up to 95 dBA L_{max} at 100 feet. Train horns may be even louder, approaching 110 dBA at 100 feet.[5]

Traffic Noise

Existing traffic noise levels along selected roadway segments in the project vicinity were modeled using the FHWA Traffic Noise Prediction Model (FHWA-RD-77-108). The daily traffic volumes were obtained from the traffic analysis prepared for the proposed project by Kittelson & Associates.[6] The traffic volumes described here correspond to the existing without project conditions traffic scenario as described in the transportation analysis. The model inputs and outputs—including the 60 dBA, 65 dBA, and 70 dBA CNEL noise contour distances—are provided in the Appendix of this document. A summary of the modeling results is shown in Table 6. Existing traffic noise levels on Washington Avenue adjacent to the project site are approximately 73 dBA CNEL as measured at 50 feet from the centerline of the outermost travel lane.

Table 6: Existing Traffic Noise Levels

Roadway Segment	Approximate ADT	Centerline to 70 CNEL (feet)	Centerline to 65 CNEL (feet)	Centerline to 60 CNEL (feet)	CNEL (dBA) 50 feet from Centerline of Outermost Lane
Washington Avenue–San Leandro Boulevard to 139th Avenue	15,600	97	208	449	73.6
Washington Avenue–139th Avenue to 143rd Avenue	16,200	102	215	460	72.3
Washington Avenue–143rd Avenue to Halcyon Drive	17,400	107	225	483	72.6

[5] City of San Leandro. 2016. City of San Leandro 2035 General Plan, Environmental Hazards Element - Noise.
[6] Kittelson & Associates. 2022. San Leandro 14143 Washington Avenue Industrial Traffic Impact Analysis. May.

Roadway Segment	Approximate ADT	Centerline to 70 CNEL (feet)	Centerline to 65 CNEL (feet)	Centerline to 60 CNEL (feet)	CNEL (dBA) 50 feet from Centerline of Outermost Lane

Notes:
ADT = Average Daily Traffic (The ADT values are calculated based on the PM peak-hour traffic volumes multiplied by a factor of 10)
CNEL = Community Noise Equivalent Level
dBA = A-weighted decibel
Vehicle mix percentages are based on Riverside County's data set for roadways designated as "major," "arterial," "highways," or "expressways."
Source: FirstCarbon Solutions (FCS) 2022.

SECTION 5: THRESHOLDS OF SIGNIFICANCE AND IMPACT ANALYSIS

5.1 - Thresholds of Significance

According to CEQA Guidelines Appendix G, to determine whether impacts related to noise and vibration are significant environmental effects, the following questions are analyzed and evaluated.

Would the proposed project:

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

b) Generate excessive groundborne vibration or groundborne noise levels?

c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within 2 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?

5.2 - Substantial Noise Increase in Excess of Standards

5.2.1 - Construction Noise Impacts

For purposes of this analysis, a significant impact would occur if construction activities would result in a substantial temporary increase in ambient noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies. The City of San Leandro Municipal Code has established limits on permissible hours of construction for any construction work or related activity adjacent to or across a street of right-of-way from residential use, except between the hours of 7:00 a.m. to 7:00 p.m., Monday through Friday, and 8:00 a.m. to 7:00 p.m. on Saturday and Sunday, and no construction is permitted on federal holidays.

Noise impacts from construction activities associated with the proposed project would be a function of the noise generated by construction equipment, equipment location, sensitivity of nearby land uses, and the timing and duration of the construction activities.

Construction-related Traffic Noise

Noise impacts from construction activities associated with the proposed project would be a function of the noise generated by construction equipment, equipment location, sensitivity of nearby land uses, and the timing and duration of the construction activities. One type of short-term noise impact that could occur during project construction would result from the increase in traffic flow on local streets, associated with the transport of workers, equipment, and materials to and from the project site. The transport of workers and construction equipment and materials to the project site would incrementally increase noise levels on access roads leading to the site. Because workers and

construction equipment would use existing routes, noise from passing trucks would be similar to existing vehicle-generated noise on these local roadways. Typically, a doubling of the Average Daily Traffic (ADT) hourly volumes on a roadway segment is required in order to result in an increase of 3 dBA in traffic noise levels; which, as discussed in the characteristics of noise discussion above, is the lowest change that can be perceptible to the human ear in outdoor environments. As shown in Table 6, there are 16,200 existing average daily trips on the roadway segment adjacent to the project site (which is the segment that would experience the greatest concentration of project construction trips). Project-related construction trips would not come even close to doubling these average daily traffic volumes along any roadway segment in the project vicinity. For this reason, short-term intermittent noise from construction trips would not be expected to result in a perceptible increase in hourly- or daily-average traffic noise levels in the project vicinity. Therefore, short-term construction-related noise impacts associated with the transportation of workers and equipment to the project site would be less than significant.

Construction Equipment Operational Noise

The second type of short-term noise impact is related to noise generated during construction on the project site. Construction is completed in discrete steps, each of which has its own mix of equipment and, consequently, its own noise characteristics. These various sequential phases would change the character of the noise generated on the site and, therefore, the noise levels surrounding the site as construction progresses. Despite the variety in the type and size of construction equipment, similarities in the dominant noise sources and patterns of operation allow construction-related noise ranges to be categorized by work phase. Table 2 lists typical construction equipment noise levels, based on a distance of 50 feet between the equipment and a noise receptor. Typical operating cycles for these types of construction equipment may involve 1 or 2 minutes of full power operation followed by 3 or 4 minutes at lower power settings. Impact equipment such as pile drivers are not expected to be used during construction of this project.

The site preparation phase, which includes excavation and grading of the site, tends to generate the highest noise levels because the noisiest construction equipment is earthmoving equipment. Earthmoving equipment includes excavating machinery and compacting equipment, such as bulldozers, draglines, backhoes, front loaders, roller compactors, scrapers, and graders. Typical operating cycles for these types of construction equipment may involve 1 or 2 minutes of full power operation followed by 3 or 4 minutes at lower power settings.

Construction of the project is expected to require the use of scrapers, bulldozers, water trucks, haul trucks, and pickup trucks. Based on the information provided in Table 2, the maximum noise level generated by each scraper is assumed to be 85 dBA L_{max} at 50 feet from this equipment. Each bulldozer would also generate 85 dBA L_{max} at 50 feet. The maximum noise level generated by graders is approximately 85 dBA L_{max} at 50 feet.

The closest residential land uses are single-family residences located approximately 520 feet southwest of the project site boundaries. These residences are shielded from the project site by an existing 8-foot high sound wall. At this distance and assuming minimal shielding by the existing sound wall, relative worst-case maximum construction noise levels would attenuate to below 59 dBA

L_{max}, with relative worst-case hourly average construction noise levels attenuating to below 55 dBA L_{eq} at this receptor. These reasonable worst-case noise levels, when averaged for full day of construction would result in a 24-hour average noise level of 52 dBA L_{dn}. The calculation spreadsheet with the detailed modeling assumptions is included in the appendix.

Although there could be a relatively high single-event noise exposure potential causing an intermittent noise nuisance, the effect of construction activities on longer-term (hourly or daily) ambient noise levels would be small. However, construction activities could result in a temporary increase in ambient noise levels in the project vicinity that could result in annoyance or sleep disturbance of nearby sensitive receptors. Therefore, limiting construction activities to the daytime hours would reduce the effects of noise levels produced by these activities on longer-term (hourly or daily) ambient noise levels and would reduce the potential for noise-related annoyance or sleep disturbances at nearby sensitive receptors. The proposed project will comply with the City's noise ordinance which restricts construction activities to the daytime hours of between 7:00 a.m. and 7:00 p.m. on weekdays, or between 8:00 a.m. and 7:00 p.m. on Sunday and Saturday.

As shown in Table 6, documented existing traffic noise levels along Washington Avenue adjacent to the project site average at least 72 dBA L_{dn} at 50-feet from the centerline of the outermost travel lane. The nearest residential receptors are located approximately 280 feet from the centerline of Washington Avenue. At this distance noise levels from traffic on Washington Avenue would attenuate to approximately 58 dBA L_{dn}. Therefore, daytime construction noise levels would not exceed existing traffic noise levels as measured at this nearest sensitive receptor and would not result in a substantial temporary increase in daytime ambient noise levels.

Therefore, construction noise levels would not result in a substantial temporary increase in ambient noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies receptors. Therefore, temporary construction noise impacts would be less than significant.

5.2.2 - Mobile Source Operational Noise Impacts

A significant impact would occur if implementation of the proposed project would result in a substantial increase in traffic noise levels compared with traffic noise levels existing without the project. The City of San Leandro considers an increase of 3 dBA as a significant adverse impact in ambient noise levels. As noted in the characteristics of noise discussion, audible increases in noise levels generally refer to a change of 3 dBA or more, as this level has been found to be barely perceptible to the human ear in outdoor environments. A change of 5 dBA is considered the minimum readily perceptible change to the human ear in outdoor environments. Therefore, for purposes of this analysis, an increase of greater than 3 dBA above existing traffic noise levels would be considered a substantial permanent increase in traffic noise levels.

Traffic noise levels along selected roadway segments in the project vicinity were modeled using the FHWA Traffic Noise Prediction Model (FHWA-RD-77-108). Site-specific information is entered, such as roadway traffic volumes, roadway active width, source-to-receiver distances, travel speed, noise source and receiver heights, and the percentages of automobiles, medium trucks, and heavy trucks

that the traffic is made up of throughout the day, among other variables. The daily traffic volumes were obtained from the traffic analysis prepared for the project by Kittelson & Associates.[7] The traffic volumes described here, which correspond to the traffic scenarios analyzed in the traffic study, include the Existing, Existing Plus Project, Opening Year No Project, and Opening Year Plus Project conditions. The model inputs and outputs—including the 60 dBA, 65 dBA, and 70 dBA CNEL noise contour distances—are provided in the Appendix of this document. Table 7, shows the traffic noise levels as measured at 50 feet from the centerline of the outermost travel lane.

Table 7: Traffic Noise Increase Summary

Roadway Segment	Existing (dBA) CNEL	Existing Plus Project (dBA) CNEL	Increase over Existing (dBA)	Cumulative (Year 2035) No Project (dBA) CNEL	Cumulative (Year2035) Plus Project (dBA) CNEL	Increase over Opening Year No Project (dBA)
Washington Avenue–San Leandro Boulevard to 139th Avenue	73.6	73.6	<0.1	74.9	74.9	<0.1
Washington Avenue–139th Avenue to 143rd Avenue	72.3	72.3	<0.1	73.5	73.5	<0.1
Washington Avenue–143rd Avenue to Halcyon Drive	72.6	72.6	<0.1	73.8	73.8	<0.1

Notes:
dBA = A-weighted decibel
CNEL = Community Noise Equivalent Level
Source: FirstCarbon Solutions (FCS) 2022.

As shown in Table 7, implementation of the proposed project would result in a 0.0 decibel increase in traffic noise levels on roadway segments adjacent to the project site where the highest concentration of project trips would occur. This is due to the minimal project ADT generation compared to existing traffic volumes on Washington Avenue. Therefore, impacts from project-related traffic noise levels would be less than significant.

5.2.3 - Stationary Source Operational Noise Impacts

A significant impact would occur if operational noise levels generated by stationary noise sources at the project site would result in a substantial permanent increase in ambient noise levels in excess of any of the City's noise standards. According to the City's General Plan, an increase of 3 dBA L_{dn} should be considered a significant adverse impact.

The proposed project would generate noise from truck delivery, loading and unloading activities at commercial loading areas; parking lot activities, which includes people conversing, doors shutting, engine startup, and slow-moving vehicles; and from new exterior mechanical equipment sources,

[7] Kittelson & Associates. 2022. San Leandro 14143 Washington Avenue Industrial Traffic Impact Analysis. May.

such as rooftop ventilation systems on proposed commercial uses. Potential impacts from these noise sources are discussed below.

Truck Loading Activities

Noise would be also generated by truck loading and unloading activities at the loading docks along the southern, western, and northern sides of the proposed building. Typical noise levels from truck loading and unloading activity range from 70 dBA to 80 dBA L_{max} as measured at 50 feet. These maximum noise level range includes noise from associated truck loading/unloading activity, including trucks maneuvering, truck trailer loading, truck trailer unloading, backup alarms or beepers, and truck docking noise.

The nearest noise-sensitive receptors to the proposed truck loading areas are single-family residences located southwest of the project site on Monogram Street. The proposed loading docks would be located approximately 650 feet from this closest sensitive receptor and are shielded from the project site by an existing 8-foot high sound wall. A reasonable worst-case analysis is to assume these activities would occur for a 24-hour period. Because of distance attenuation and minimal shielding provided by the sound wall, noise levels from truck loading and unloading activities would result in a reasonable worst-case 24-hour average noise level of 56 dBA L_{dn} as measured at the nearest sensitive receptors. The calculation spreadsheet with the detailed modeling assumptions is included in the appendix.

As shown in Table 7, documented existing traffic noise levels along Washington Avenue adjacent to the project site average at least 72 dBA L_{dn} at 50-feet from the centerline of the outermost travel lane. The nearest residential receptors are located approximately 280 feet from the centerline of Washington Avenue. At this distance noise levels from traffic on Washington Avenue would attenuate to approximately 58 dBA L_{dn}.

Therefore, noise levels from truck loading and unloading activities would not exceed existing background noise levels as measured at the nearest residential receptor. Thus, noise levels from truck loading and unloading activities would not generate a substantial temporary or permanent increase in ambient noise levels in the project vicinity in excess of standards established in the local general plan or noise ordinance, and the impact would be less than significant.

Parking Lot Activities

Typical parking lot activities include people conversing, doors shutting, and vehicles idling which generate noise levels ranging from approximately 60 dBA to 70 dBA L_{max} at 50 feet. These activities are expected to occur sporadically throughout the day, as visitors and staff arrive and leave parking lot areas at the project site.

The nearest noise-sensitive receptor to proposed parking areas are single-family residences located southwest of the project site on Monogram Street. The proposed parking areas would be located approximately 560 feet from this closest sensitive receptor and are shielded from the project site by an existing 8-foot high sound wall. A reasonable worst-case analysis is to assume these activities would occur for a 24-hour period. Because of distance attenuation and minimal shielding provided by

the sound wall; noise levels generated from typical parking lot activity would result in a reasonable worst-case 24-hour average noise level of 44 dBA L_{dn} at the nearest sensitive receptors. The calculation spreadsheet with the detailed modeling assumptions is included in the appendix.

As noted previously, documented existing traffic noise from traffic on Washington Avenue would average 58 dBA L_{dn} as measured at the nearest residential receptor.

Therefore, noise levels from project-related parking lot activity would not exceed existing background noise levels as measured at the nearest residential receptor. Therefore, noise levels from parking lot activity would not generate a substantial temporary or permanent increase in ambient noise levels in the project vicinity in excess of standards established in the local general plan or noise ordinance, and the impact would be less than significant.

Mechanical Equipment Operations

At the time of preparation of this analysis, details were not available pertaining to the proposed rooftop mechanical ventilation systems for the project; therefore, a reference noise level for typical rooftop mechanical ventilation systems was used. Noise levels from commercially available rooftop mechanical ventilation equipment range from 50 dBA to 60 dBA L_{eq} at a distance of 25 feet.

The nearest noise-sensitive receptor to proposed rooftop mechanical ventilation equipment are single-family residences located southwest of the project site. The proposed rooftop mechanical ventilation equipment would be located approximately 725 feet from this closest sensitive receptor. Because these units would be mounted on the roof, some of them could have a direct line of sight to the nearest residential receptor and, therefore, no shielding reduction would be assumed for the existing 8-foot high sound wall. A reasonable worst-case analysis is to assume these activities would occur for a 24-hour period. Because of distance attenuation and minimal shielding provided by the sound wall; noise levels generated from rooftop mechanical ventilation equipment operations would result in a reasonable worst-case 24-hour average noise level of 38 dBA L_{dn} at the nearest sensitive receptors. The calculation spreadsheet with the detailed modeling assumptions is included in the appendix.

As noted previously, documented existing traffic noise from traffic on Washington Avenue would attenuate to 58 dBA L_{dn} as measured at the nearest residential receptor.

Therefore, noise levels from rooftop mechanical ventilation equipment operations would not exceed existing background noise levels as measured at the nearest residential receptor. Therefore, noise levels from mechanical ventilation equipment operations would not generate a substantial temporary or permanent increase in ambient noise levels in the project vicinity in excess of standards established in the local general plan or noise ordinance, and the impact would be less than significant.

5.3 - Groundborne Vibration/Noise Levels

This section analyzes both construction and operational groundborne vibration and noise impacts. Groundborne vibrations consist of rapidly fluctuating motions within the ground that have an average motion of zero. Vibrating objects in contact with the ground radiate vibration waves through various

soil and rock strata to the foundations of nearby buildings. Groundborne noise is generated when vibrating building components radiate sound, or noise generated by groundborne vibration. In general, if groundborne vibration levels do not exceed levels considered to be perceptible, then groundborne noise levels would not be perceptible in most interior environments. Therefore, this analysis focuses on determining exceedances of groundborne vibration levels.

A significant impact would occur if the project would generate groundborne vibration or groundborne noise levels in excess of established standards. The City of San Leandro has not adopted criteria for groundborne vibration impacts. Therefore, for purposes of this analysis, the FTA's vibration impact criteria are utilized. The FTA has established industry accepted standards for vibration impact criteria and impact assessment. These guidelines are published in its Transit Noise and Vibration Impact Assessment Manual.[8] These guidelines are summarized in Table 5.

5.3.1 - Short-term Construction Vibration Impacts

Of the variety of equipment used during construction, the large vibratory rollers that are anticipated to be used in the site preparation phase of construction would produce the greatest groundborne vibration levels. Large vibratory rollers produce groundborne vibration levels ranging up to 0.201 inch per second (in/sec) PPV at 25 feet from the operating equipment.

The nearest off-site receptor to the project construction footprint is a lumber store, located northwest of the project site. The façade of this closest structure would be located approximately 70 feet from the proposed project site where the heaviest construction equipment would potentially operate. At this distance, groundborne vibration levels would range up to 0.04 PPV from operation of the types of equipment that would produce the highest vibration levels. This is well below the FTA's Construction Vibration Impact Criteria of 0.2 PPV for this type of structure – non-engineered timber and masonry buildings. Therefore, project construction activities would not generate groundborne vibration or groundborne noise levels in excess of established standards and the impact of short-term groundborne vibration associated with construction to off-site receptors would be less than significant.

5.3.2 - Operational Vibration Impacts

Implementation of the project would not include any new permanent sources that would expose persons in the project vicinity to groundborne vibration levels that could be perceptible without instruments at any existing sensitive land use in the project vicinity. Additionally, there are no active sources of groundborne vibration in the project vicinity that would produce vibration levels that would be perceptible without instruments within the project site. Therefore, the project would not generate groundborne vibration or groundborne noise levels in excess of established standards and there would be no impact related to operational groundborne vibration.

[8] Federal Transit Administration (FTA). 2018. Transit Noise and Vibration Impact Assessment Manual. September.

5.4 - Excessive Noise Levels from Airport Activity

A significant impact would occur if the proposed project would expose people residing or working in the project area to excessive noise levels for a project located in the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport.

The nearest public airport to the project site is the Oakland International Airport, located approximately 3.3 miles northwest of the project site. According to the airport's noise exposure map, the project site is located outside of the 60 dBA CNEL airport noise contours.[9] While aircraft noise is occasionally audible on the project site from aircraft flyovers, aircraft noise associated with nearby airport activity would not expose people residing or working near the project site to excessive noise levels. Therefore, implementation of the project would not expose persons residing or working in the project vicinity to noise levels from airport activity that would be in excess of normally acceptable standards for the proposed land use development, and no impact would occur.

[9] City of San Leandro. 2016. City of San Leandro 2035 General Plan, Environmental Hazards Element - Noise.

Appendix A:
Noise Modeling Data

Mobile Construction Activity

Receptor: Closest residences south of project site

		Noise Level Calculation Prior to Implementation of Noise Attenuation Requirements								
		Reference (dBA) 50 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
No.	Equipment Description	Lmax	Quantity	factor[1]	Receptor	Effect[2]	(dBA)[3]	Lmax	Leq	Energy
1	Scraper	85	1	40	520	0.5	6	58.7	49.6	91091.24609
2	Rubber Tired Dozer	85	1	40	540	0.5	6	58.3	49.2	82889.70664
3	Front End Loader	85	1	40	540	0.5	6	58.3	49.2	82889.70664
4	Backhoe	80	1	40	560	0.5	6	53.0	43.8	23933.9806
5	Front End Loader	80	1	40	560	0.5	6	53.0	43.8	23933.9806
6										
7										
8										
9										
10										
							Lmax[4]	**59**	**Leq**	**55**

Notes:
[1] Percentage of time activity occurs each hour
[2] Soft ground terrain between project site and receptor.
[3] Shielding due to soundwall
[4] Calculated Lmax is the Loudest value.

Ldn Calculations					
	Time	Hourly Leq	Leq'	0.1*Leq	antiLog
Night	12:00 AM	0.0	10.0	1	10
	1:00 AM	0.0	10.0	1	10
	2:00 AM	0.0	10.0	1	10
	3:00 AM	0.0	10.0	1	10
	4:00 AM	0.0	10.0	1	10
	5:00 AM	0.0	10.0	1	10
	6:00 AM	0.0	10.0	1	10
Day	7:00 AM	54.8	54.8	5.483927497	304738.6206
	8:00 AM	54.8	54.8	5.483927497	304738.6206
	9:00 AM	54.8	54.8	5.483927497	304738.6206
	10:00 AM	54.8	54.8	5.483927497	304738.6206
	11:00 AM	54.8	54.8	5.483927497	304738.6206
	12:00 PM	54.8	54.8	5.483927497	304738.6206
	1:00 PM	54.8	54.8	5.483927497	304738.6206
	2:00 PM	54.8	54.8	5.483927497	304738.6206
	3:00 PM	54.8	54.8	5.483927497	304738.6206
	4:00 PM	54.8	54.8	5.483927497	304738.6206
	5:00 PM	54.8	54.8	5.483927497	304738.6206
	6:00 PM	54.8	54.8	5.483927497	304738.6206
	7:00 PM	54.8	54.8	5.483927497	304738.6206
	8:00 PM	0.0	0.0	0	1
	9:00 PM	0.0	0.0	0	1
Night	10:00 PM	0.0	10.0	1	10
	11:00 PM	0.0	10.0	1	10
			Sum		3961694.067
			Sum/24		165070.5861
			Log10(Sum/24)		5.217669693
			10*Log10(Sum/24)		52.17669693
			24 Hour Ldn		52

Loading/Unloading

Receptor: Closest Residence to the South

		Noise Level Calculation Prior to Implementation of Noise Attenuation Requirements								
		Reference (dBA) 50 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
No.	Equipment Description	Lmax	Quantity	factor[1]	Receptor	Effect[2]	(dBA)[3]	Lmax	Leq	Energy
1	Loading/Unloading	80	2	25	650	0.5	6	51.7	43.1	20611.5961
2	Loading/Unloading	80	3	25	680	0.5	6	51.3	44.4	27619.38427
3	Loading/Unloading	80	3	25	710	0.5	6	51.0	43.9	24793.64636
4	Loading/Unloading	80	3	25	740	0.5	6	50.6	43.5	22356.66272
5										
6										
7										
8										
9										
10										
							Lmax[4]	**52**	**Leq**	**50**

Notes:
[1] Percentage of time activity occurs each hour
[2] Soft ground terrain between project site and receptor.
[3] Shielding due to terrain or structures
[4] Calculated Lmax is the Loudest value.

Ldn Calculations					
	Time	Hourly Leq	Leq'	0.1*Leq	antiLog
Night	12:00 AM	49.8	59.8	5.979463189	953812.8945
	1:00 AM	49.8	59.8	5.979463189	953812.8945
	2:00 AM	49.8	59.8	5.979463189	953812.8945
	3:00 AM	49.8	59.8	5.979463189	953812.8945
	4:00 AM	49.8	59.8	5.979463189	953812.8945
	5:00 AM	49.8	59.8	5.979463189	953812.8945
	6:00 AM	49.8	59.8	5.979463189	953812.8945
Day	7:00 AM	49.8	49.8	4.979463189	95381.28945
	8:00 AM	49.8	49.8	4.979463189	95381.28945
	9:00 AM	49.8	49.8	4.979463189	95381.28945
	10:00 AM	49.8	49.8	4.979463189	95381.28945
	11:00 AM	49.8	49.8	4.979463189	95381.28945
	12:00 PM	49.8	49.8	4.979463189	95381.28945
	1:00 PM	49.8	49.8	4.979463189	95381.28945
	2:00 PM	49.8	49.8	4.979463189	95381.28945
	3:00 PM	49.8	49.8	4.979463189	95381.28945
	4:00 PM	49.8	49.8	4.979463189	95381.28945
	5:00 PM	49.8	49.8	4.979463189	95381.28945
	6:00 PM	49.8	49.8	4.979463189	95381.28945
	7:00 PM	49.8	49.8	4.979463189	95381.28945
	8:00 PM	49.8	49.8	4.979463189	95381.28945
	9:00 PM	49.8	49.8	4.979463189	95381.28945
Night	10:00 PM	49.8	59.8	5.979463189	953812.8945
	11:00 PM	49.8	59.8	5.979463189	953812.8945
			Sum		10015035.39
			Sum/24		417293.1413
			Log10(Sum/24)		5.620441247
			10*Log10(Sum/24)		56.20441247
			24 Hour Ldn		56

Parking Lot activity

Receptor: Closest Residence to the South

No.	Equipment Description	Reference (dBA) 50 ft Lmax	Quantity	Usage factor[1]	Distance to Receptor	Ground Effect[2]	Shielding (dBA)[3]	Calculated (dBA) Lmax	Calculated (dBA) Leq	Energy
1	parking lot activity	70	3	10	560	0.5	6	43.0	32.5	1795.048545
2	parking lot activity	70	3	10	585	0.5	6	42.6	32.1	1609.37259
3	parking lot activity	70	3	10	610	0.5	6	42.3	31.6	1449.511543
4	parking lot activity	70	3	10	635	0.5	6	41.9	31.2	1311.027955
5										
6										
7										
8										
9										
10										
							Lmax[4]	**43**	**Leq**	**38**

Notes:
[1] Percentage of time activity occurs each hour
[2] Soft ground terrain between project site and receptor.
[3] Shielding due to terrain or structures
[4] Calculated Lmax is the Loudest value.

Ldn Calculations					
	Time	Hourly Leq	Leq'	0.1*Leq	antiLog
Night	12:00 AM	37.9	47.9	4.789930308	61649.60633
	1:00 AM	37.9	47.9	4.789930308	61649.60633
	2:00 AM	37.9	47.9	4.789930308	61649.60633
	3:00 AM	37.9	47.9	4.789930308	61649.60633
	4:00 AM	37.9	47.9	4.789930308	61649.60633
	5:00 AM	37.9	47.9	4.789930308	61649.60633
	6:00 AM	37.9	47.9	4.789930308	61649.60633
Day	7:00 AM	37.9	37.9	3.789930308	6164.960633
	8:00 AM	37.9	37.9	3.789930308	6164.960633
	9:00 AM	37.9	37.9	3.789930308	6164.960633
	10:00 AM	37.9	37.9	3.789930308	6164.960633
	11:00 AM	37.9	37.9	3.789930308	6164.960633
	12:00 PM	37.9	37.9	3.789930308	6164.960633
	1:00 PM	37.9	37.9	3.789930308	6164.960633
	2:00 PM	37.9	37.9	3.789930308	6164.960633
	3:00 PM	37.9	37.9	3.789930308	6164.960633
	4:00 PM	37.9	37.9	3.789930308	6164.960633
	5:00 PM	37.9	37.9	3.789930308	6164.960633
	6:00 PM	37.9	37.9	3.789930308	6164.960633
	7:00 PM	37.9	37.9	3.789930308	6164.960633
	8:00 PM	37.9	37.9	3.789930308	6164.960633
	9:00 PM	37.9	37.9	3.789930308	6164.960633
Night	10:00 PM	37.9	47.9	4.789930308	61649.60633
	11:00 PM	37.9	47.9	4.789930308	61649.60633
			Sum		647320.8664
			Sum/24		26971.70277
			Log10(Sum/24)		4.430908365
			10*Log10(Sum/24)		44.30908365
			24 Hour Ldn		44

Mechanical Equipment Noise Calculation

Receptor: Closest Residence to the South

		Noise Level Calculation Prior to Implementation of Noise Attenuation Requirements								
		Reference (dBA) 25 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
No.	Equipment Description	Lmax	Quantity	factor[1]	Receptor	Effect[2]	(dBA)[3]	Lmax	Leq	Energy
1	Commercial grade mechanical ventilation equipment	60	1	100	725	0.5	0	30.8	23.4	220.803018
2	Commercial grade mechanical ventilation equipment	60	2	100	750	0.5	0	30.5	26.1	405.720413
3	Commercial grade mechanical ventilation equipment	60	2	100	775	0.5	0	30.2	25.7	373.7883497
4	Commercial grade mechanical ventilation equipment	60	2	100	800	0.5	0	29.9	25.4	345.266983
5										
6										
7										
8										
9										
10										
							Lmax[4]	**31**	**Leq**	**31**

Notes:
[1] Percentage of time activity occurs each hour
[2] Soft ground terrain between project site and receptor.
[3] Shielding due to structures or soundwalls.
[4] Calculated Lmax is the Loudest value.

Ldn Calculations					
	Time	Hourly Leq	Leq'	0.1*Leq	antiLog
Night	12:00 AM	31.3	41.3	4.128909124	13455.78764
	1:00 AM	31.3	41.3	4.128909124	13455.78764
	2:00 AM	31.3	41.3	4.128909124	13455.78764
	3:00 AM	31.3	41.3	4.128909124	13455.78764
	4:00 AM	31.3	41.3	4.128909124	13455.78764
	5:00 AM	31.3	41.3	4.128909124	13455.78764
	6:00 AM	31.3	41.3	4.128909124	13455.78764
Day	7:00 AM	31.3	31.3	3.128909124	1345.578764
	8:00 AM	31.3	31.3	3.128909124	1345.578764
	9:00 AM	31.3	31.3	3.128909124	1345.578764
	10:00 AM	31.3	31.3	3.128909124	1345.578764
	11:00 AM	31.3	31.3	3.128909124	1345.578764
	12:00 PM	31.3	31.3	3.128909124	1345.578764
	1:00 PM	31.3	31.3	3.128909124	1345.578764
	2:00 PM	31.3	31.3	3.128909124	1345.578764
	3:00 PM	31.3	31.3	3.128909124	1345.578764
	4:00 PM	31.3	31.3	3.128909124	1345.578764
	5:00 PM	31.3	31.3	3.128909124	1345.578764
	6:00 PM	31.3	31.3	3.128909124	1345.578764
	7:00 PM	31.3	31.3	3.128909124	1345.578764
	8:00 PM	31.3	31.3	3.128909124	1345.578764
	9:00 PM	31.3	31.3	3.128909124	1345.578764
Night	10:00 PM	31.3	41.3	4.128909124	13455.78764
	11:00 PM	31.3	41.3	4.128909124	13455.78764
			Sum		141285.7702
			Sum/24		5886.907091
			Log10(Sum/24)		3.769887182
			10*Log10(Sum/24)		37.69887182
			24 Hour Ldn		38

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